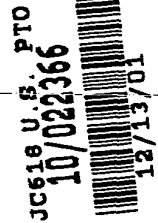




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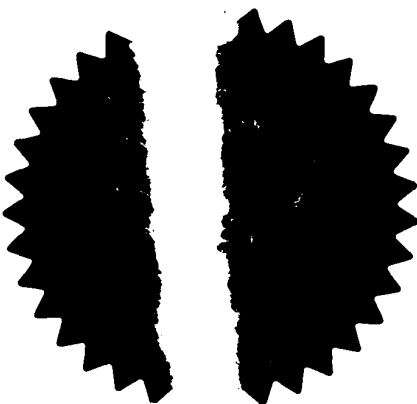
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CRYSTAL STRUCTURE

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CRYSTAL STRUCTURE

Field of the Invention

5 The present invention relates to crystals of adenosine monophosphate deaminase (AMPDA), and more particularly to the high resolution structure of AMPDA obtained by X-ray diffraction. The invention further relates to the use of the three-dimensional structure so determined to identify, design or select compounds that bind to AMPDA or its active site.

10

Background to the invention

AMP deaminase (AMPDA; EC 3.5.4.6) is an integral enzyme of purine nucleotide interconversion. The zinc dependent enzyme catalyses the irreversible hydrolysis of 5' adenosine monophosphate (AMP) to form inosine monophosphate (IMP) and ammonia. This reaction represents a branch-point in the energy-generating adenylate catabolic pathway regulating the availability of adenosine nucleotides, including ATP, within the cell. The enzyme is a target e.g. for the treatment of ischemia-related diseases. Blocking the pathway reduces the depletion of the total adenine pool observed in ischemic tissues (Erion, M.D., *et al.* (1999) J. Am. Chem. Soc. 121, 308-319; Skladanowski, A.C. in Myocardial Energy Metabolism (ed. de Jong, J.W.) 53-65 (Dordrecht, 1998)), and thus the metabolically expensive requirement for the *de novo* synthesis of ATP. Patients with congestive heart failure (CHF) have been found to have a significantly longer survival period without heart transplant if they have a genetic deficiency in skeletal muscle AMPDA (Loh, E., *et al.* (1999) Circulation 99, 1422-1425); similarly, survival in patients with coronary artery disease (CAD) is improved if they have a common variant of the *ampd1* gene, which encodes for a truncated, inactive enzyme (Anderson, J.L. *et al.* (2000) J. Am Coll Cardiol 36, 1248-1252). The therapeutic potential of specific AMPDA inhibitors is not limited to CHF and CAD, but extends to other diseases, including to all ischemia-related diseases. These include peripheral vascular disease and chronic obstructive pulmonary disease. As recently reported, AMPDA inhibitors could also be useful in Alzheimer's disease (Sims, B. *et al.* (1998) Neurobiol. Aging 19, 385-391).

30

AMPDA is a diverse, oligomeric, and highly regulated enzyme ubiquitous in eukaryotic cells. Multiple isoforms have been purified and characterised from rat and human tissues, which are encoded by transcripts from a multigene family (Morisaki, T., Sabina, R.L. & Holmes, E.W. (1990) *J. Biol. Chem.* 265, 11482-11486; Baush-Jurken, M.T., et al (1992) *J. Biol. Chem.* 267, 22407-22413). Three mammalian genes encoding AMP deaminase have been identified; *ampd1*, which encodes the isoenzyme expressed at high levels in skeletal muscle (M-AMPDA), *ampd2* and *ampd3* which are expressed in a wide range of tissues and are called the smooth and cardiac muscle isoenzymes (or L-AMPDA and E-AMPDA) respectively. Sequence analysis demonstrates that these isoenzymes have a highly conserved C-terminal domain and a smaller divergent N-terminal domain. The skeletal enzyme is closely associated with muscle fibers binding the myosin heavy chain and is regulated by a number of factors. ATP acts as an allosteric inhibitor. K⁺ ion concentration modulates the enzyme activity which has also been shown to increase under the mildly acidic (pH6.5) conditions found in exercising muscle (Sabina, R.L. & Mahnke-Zizelman, D.K. (2000) *Pharmacol. Ther.* 87, 279-283; Ranieri-Raggi, M. & Raggi, A. (1990) *Biochem. J.* 272, 755-759; Ranieri-Raggi, M. & Raggi, A. (1980) *Biochem. J.* 189, 367-368; Ranieri-Raggi, M. & Raggi, A. (1979) *FEBS Lett.* 102, 59-63; Thakkar, J.K., et al (1993) *Biochem. J.* 290, 335-341; Hisatome, I., et al. (1998) *Am J. Physiol.* 275, C870-C881).

The purification of the enzyme from rabbit muscle has been reported by Smiley, K.L., Berry, A.J. & Suelter, C.H. ((1967) *J. Biol. Chem.* 242, 2502-2506). The protein is unstable and on storage the N-terminal domain (7kDa) is removed, an effect that can be reproduced by limited trypsin proteolysis cleaving the enzyme after lysine 95 (Sabina, R.L. & Mahnke-Zizelman, D.K. (2000) *Pharmacol. Ther.* 87, 279-283). The C-terminal domain retains catalytic activity. However, in the truncated state the enzyme is less tightly regulated and ATP no longer inhibits the enzyme allosterically, indicating that the small N-terminal domain is regulatory and binds ATP. Enzyme has since been produced from a number of sources including chicken (Chilson, O.P., Kelly-Chilson, A.E. & Siegel, N.R. (1997) *Comp. Biochem. Physiol.* 116B, 371-377) and rat (Coffee, C.J. & Kofke, W.A. (1975), *J. Biol. Chem.* 250, 6653-6658) skeletal-muscle, while the human enzyme has been produced in a baculovirus expression system (Mahnke-Zizelman, D.K., Tullson, P.C. & Sabina, R.L. (1998) *J. Biol. Chem.* 273, 35118-35125). Like the rabbit enzyme, each of these proteins is unstable which has led to a range of molecular weights for the

enzymes being reported and some debate over the oligomeric make-up of the protein. Trimers have been reported for the truncated form of the enzyme, but controlled limited proteolysis has demonstrated that the enzymes purified from mammalian skeletal muscle are most likely homo-tetramers of the truncated enzyme (Sabina, R.L. & Mahnke-

5 Zizelman, D.K. (2000) Pharmacol. Ther. 87, 279-283).

Despite its early identification and purification, structural information on the enzyme is very limited. The hexagonal bipyramidal crystals obtained by Smiley, Berry & Suelter ((1967) J. Biol. Chem. 242, 2502-2506) are not suitable for X-ray crystallography, and the
10 structure of the enzyme has not been elucidated. Sequence analysis by conventional techniques fails to identify any close homologues; however, an extensive analysis of amidohydrolase sequences using a combination of database searching, conserved functional properties and sequence threading techniques suggests that the enzyme may share the same fold, an ellipsoidal ($\beta\alpha$)₈ barrel with a conserved metal binding site, as the
15 urease and adenosine deaminase (ADA) family of proteins (Holm, L. & Sander, C. (1997) Proteins 28, 72-82). In contrast, a second study has proposed that the catalytic C-terminal domain of AMPDA contains two pleckstrin homology (PH) domains, a prediction which is functionally supported by the observation that AMPDA binds phosphoinositides (Sims, B., et al. (1999) J. Biol. Chem. 274, 25701-25707).

20

Various AMPDA inhibitors have been identified; examples are coformycin (Nakamura H et al (1974) J. Am. Chem. Soc. 96, 4327-8), as well as inhibitors based around coformycin, (Erion, M.D. et al (1999) J. Am. Chem. Soc. 121, 308-319; Bookser, B.C. et al. (2000) J. Med. Chem. 43, 1495-1507), and a series of compounds as exemplified in
25 WO 94/18200, including 3-(2'-(3''-carboxynaphthyl)ethyl)coformycin aglycone (compound 1p), herein called UK-384,858. AMPDA is also inhibited by alkylsulfonate compounds (Yoshino, M. & Murakami, K. (1998) Env Tox Pharmacol 5, 215-217). However, without the structure of the enzyme and detailed knowledge at the atomic level of how the inhibitors bind to the enzyme, the design and optimisation of such compounds
30 is difficult.

Aspects of the invention

In a broad aspect, the invention relates to novel crystals of AMPDA which are of tetragonal form. Preferred embodiments include crystals

- 5 – wherein the AMPDA consists of the catalytic domain,
- wherein the AMPDA is from a mammal,
- wherein the AMPDA is from a rabbit,
- wherein the AMPDA has the sequence as in SEQ ID NO: 2 but starting at position Leu96;
- 10 – wherein the crystal has been grown with citric acid as the precipitating agent;
- wherein the crystal has been grown in the pH range of 7.80-8.20;
- wherein the crystal has been grown in the presence of imidazole;
- wherein the crystal has a space group $P4_2,2_1,2$;
- wherein the crystal has unit cell dimensions of $a=b=149\text{\AA} \pm 3\text{\AA}$, $c=159\text{\AA} \pm 3\text{\AA}$,
- 15 preferred wherein the crystal has unit cell dimensions of $a=b=148.7\text{\AA}$, $c=158.6\text{\AA}$,
- wherein there is a dimer of two AMPDA molecules in the asymmetric unit;
- wherein two AMPDA dimers form tightly associated tetramers, each monomer having a $(\beta\alpha)_8$ barrel fold, where the intersubunit contacts are almost exclusively made by the helices additional to the $(\beta\alpha)_8$ barrel;
- 20 – wherein the AMPDA has a Zn^{2+} coordination site involving residues His303, His305, His 572, and Asp649, with a further coordination site contributed by an activated water molecule required for catalysis;
- wherein the active site of AMPDA is contained in a cleft formed by the additional helices between the first and second strand of the $(\beta\alpha)_8$ barrel fold, and the helix
- 25 immediately following the third strand;
- wherein the AMPDA has a pocket which can accommodate the adenosine group of AMP, which pocket is formed by amino acid residues including, but not limited to, residues His305, Phe372, Phe375, Asp513, Glu575, His594, and Asp650;
- wherein the AMPDA has a pocket which can accommodate the ribose and phosphate
- 30 groups of AMP, which pocket is formed by amino acid residues including, but not limited to, residues His305, Ala306, Ala307, Ala308, Phe375, Asn376, Tyr379, Arg388, Lys393, Ser427, Tyr429, Pro460, Ile462, Val512, and Asp513.
- which diffracts X-rays to 3.5\AA , preferred to 2.8\AA , 2.5\AA , or 2.2\AA resolution;

- which has the atomic coordinates set out in Table 2, or a derivative set as expressed in any reference frame.

A preferred embodiment is a heavy atom derivative of the above mentioned crystals;

- 5 preferably, the heavy atoms are lead, silver or xenon.

Further preferred embodiments are the above mentioned AMPDA crystals with inhibitors soaked in, more preferred wherein the inhibitors are AMPDA transition state analogues, preferably coformycin analogues, even more preferred where the inhibitor is coformycin
10 or wherein the inhibitor is UK-384,858. A preferred embodiment of the invention is an AMPDA crystal with coformycin soaked in, having the atomic coordinates as set out in Table 3, or a derivative set as expressed in any reference frame; another preferred embodiment is an AMPDA crystal with UK-384,858 soaked in, having the atomic coordinates as set out in Table 4, or a derivative set as expressed in any reference frame.

15

A further embodiment of the invention is a crystal of AMPDA wherein the primary sequence of the AMPDA has 90%, preferably 95%, even more preferably 98% identity at amino acid level to the sequence shown in SEQ ID NO:2.

- 20 A further embodiment of the invention is the use of atomic coordinates obtained by X-ray diffraction studies of the above mentioned crystals for deriving the three-dimensional structure of AMPDA.

Preferred embodiments of the invention are the use of the three-dimensional structure of
25 AMPDA so determined for computationally or otherwise evaluating the binding interactions of a chemical compound with AMPDA, preferably the active site of AMPDA; and for designing compounds, preferably inhibitors of AMPDA, capable of associating with the enzyme, or preferably with the active site of the enzyme.

- 30 A preferred embodiment is a compound evaluated or designed as described above.

Another embodiment of the invention is a method of selecting an AMPDA inhibitor from a group of potential AMPDA inhibitor compounds by creating a three-dimensional representation of the enzyme, preferably the active site cavity of AMPDA, as derived

from the three-dimensional structure determined above, in a suitable computer program; displaying and superimposing the model of said test compound on the model of said enzyme, or preferably the active site of it, and assessing whether the test compound model fits the enzyme, or preferably its active site. The method can further comprise
5 incorporating the test compound in a biological AMPDA activity assay, and determining whether the test compound inhibits AMPDA activity in this assay. A compound selected by such method is also an embodiment of the invention.

Further embodiments of the invention are pharmaceutical compositions of any of the
10 compounds evaluated, designed, or selected as described above, as well as their use in the manufacture of a medicament for the treatment of diseases where AMPDA is implicated. These diseases include but are not limited to, ischemia-related diseases such as congestive heart failure, peripheral vascular disease, and chronic obstructive pulmonary disease. The diseases also include coronary artery disease (CAD) and Alzheimer's disease.

15 Another embodiment of the invention is the use of the atomic coordinates of AMPDA as mentioned above, or portions thereof, to solve a crystal form of a mutant, homologue, or co-complex of AMPDA, e.g. by molecular replacement or difference Fourier analysis, as well as the use of the atomic coordinates to produce a model of the three-dimensional
20 structure of related enzymes.

A further embodiment of the invention is an isolated and/or purified polynucleotide comprising a polynucleotide encoding the polypeptide as set forth in SEQ ID NO: 2; a polynucleotide comprising a nucleotide sequence of SEQ ID NO: 1; a polynucleotide
25 comprising a nucleotide sequence that has at least 91%, preferably 95%, even more preferably 98% identity to the polynucleotide mentioned above; a polynucleotide comprising a nucleotide sequence which is capable of hybridising to the polynucleotide mentioned above under high stringency conditions (washing with 0.1x SSC, 0.1% SDS at 65°C); a complement to any of the polynucleotide mentioned above, or a polynucleotide
30 fragment of any of these polynucleotides.

A further embodiment of the invention is a polypeptide having the deduced amino acid sequence translated from the polynucleotide sequence in SEQ ID NO: 1 and variants, fragments, homologues, analogues and derivatives thereof; or a polypeptide of SEQ ID

NO: 2 and variants, fragments, homologues, analogues and derivatives thereof. A preferred embodiment is a polypeptide of SEQ ID NO: 2 but starting at position Leu96.

5 Definitions

AMPDA: AMP deaminase (E.C. 3.5.4.6) – catalyzes the deamination of AMP to IMP as part of the purine catabolic pathway.

10 AMPDA catalytic domain: the C-terminal part of the enzyme, sufficient for catalytic activity (usually lacking the N-terminal 80-100 residues).

M-AMPDA, L-AMPDA and E-AMPDA isoenzymes: Products of different genes (*ampd1*, *ampd2* and *ampd3*), but all encoding AMP deaminase, i.e. the same activity; the
15 isoenzymes are differentially expressed in different tissues.

Polynucleotide: DNA or RNA in isolated form, made by recombinant or synthetic routes.

Polypeptide: interchangeable with the term protein, includes single-chain polypeptides as
20 well as complexes of single-chain polypeptides linked by covalent or non-covalent means.

The terms "variant", "homologue", "fragment", "analogue" or "derivative" in relation to the amino acid sequence for the polypeptide of the present invention include any substitution of, variation of, modification of, replacement of, deletion of or addition of one (or more) amino
25 acid from or to the sequence providing the resultant polypeptide retains 90%, preferably 95%, even more preferably 98% sequence identity to the sequence shown in SEQ ID No:2. Sequence identity is determined by standard bioinformatics software tools such as Blast2 or Fasta, which generate an optimal alignment between two sequences and then calculate the % identity on this basis, using default parameters.

30

Mutant of AMPDA refers to AMPDA where changes in one or more amino acid residues have been introduced artificially by processes like site-directed mutagenesis, or where deletions or insertions have been introduced into the AMPDA sequence, whether or not the

resulting proteins retain enzyme activity. It also refers to naturally occurring variants of AMPDA, whether or not they retain enzyme activity.

Related protein refers to a protein the structure of which has not yet been determined, which
5 displays significant sequence similarity (>30% sequence identity at protein level), or a significantly large portion of such a protein which would retain some of the structural features of the protein, or such a protein which does not display any similarity at the sequence level, but has a similar $(\beta\alpha)_8$ fold as AMPDA.

10 **Examples**

The invention will now be illustrated by the following non-limiting examples and accompanying figures, in which:

- 15 SEQ ID NO: 1 illustrates the rabbit AMPDA cDNA sequence;
SEQ ID NO: 2 illustrates the rabbit AMPDA protein sequence;
SEQ ID NOs: 3-6 give the primer sequences used for amplification of the rabbit AMPDA coding sequence;
- Figure 1 illustrates the monomer structure of AMPDA; coloured by greyscale from the N-
20 terminus to the C-terminus (dark to light). Helices and sheets additional to the core (ba)8 barrel region are labelled. The zinc is depicted as a grey sphere.
- Figure 2 illustrates the tetramer structure of AMPDA;
- Figure 3 shows the structures of coformycin (A) and UK-384,858 (B); atom positions are numbered for the seven membered ring system of coformycin;
- 25 Figure 4 shows the structure of the AMPDA-coformycin complex;
Figure 5 shows the structure of the AMPDA-UK-384,858 complex; and
Figure 6 shows the transition state model.

Example 1 – Cloning of rabbit AMPDA

A λ gt10 rabbit chest muscle cDNA library was purchased (Clontech TL3000a) and used as the source of cDNA for the amplification of rabbit AMPDA by polymerase chain reaction (PCR). Four primers were designed using the human skeletal muscle AMPDA sequence (Sabina R.L. et al (1992) Neurology 42, 170-179); two of these primers, AMPDA1 and AMPDA2, were complementary to the 5' and 3' ends of the coding sequence of human AMPDA, respectively; primers AMPDA3 and AMPDA4 were internal primers, designed to enable the sequence to be amplified in two halves. Primers AMPDA1 and AMPDA4 were used to amplify the N-terminal portion, and AMPDA2 and AMPDA3 to amplify the C-terminal portion of the coding sequence:

AMPDA-1 5'-ATGCCTCTGTTCAAACCTCCC-3' (SEQ ID NO: 3)

AMPDA-2 5'-TTCTGTTGATTTAAGACCCTC-3' (SEQ ID NO: 4)

AMPDA-3 5'-ATGAACCAGAAACATCTGCTG-3' (SEQ ID NO: 5)

AMPDA-4 5'-CAGCAGATGTTTCTGGTTCATG-3' (SEQ ID NO: 6)

Amplification was carried out using the above mentioned cDNA library as template, Taq polymerase (Life Technologies) and a MasterAmp™ PCR optimisation kit from Epicentre Technologies (Cambio). The amplification products were TA-cloned into pCRII (Invitrogen) as per manufacturer's protocol, and the DNA sequence determined by Lark Technologies (Saffron Walden, UK).

The rabbit cDNA sequence and the resulting translation product are shown in SEQ ID NOs: 1 and 2.

Example 2 – Purification of rabbit AMPDA

Purification of rabbit AMPDA was carried out following a procedure modified from Smiley, K.L., Berry, A.J. & Suelter, C.H. ((1967) J. Biol. Chem. 242, 2502-2506). Frozen rabbit muscle was obtained from Pel-Freez Biologicals Inc., Rogers, Arkansas.

To one kilogram of thawed muscle was added 3 times its weight of extraction buffer composed of 0.18 M potassium chloride (KCl), 0.054 M potassium dihydrogen phosphate (KH_2PO_4), 0.035 M potassium hydrogen phosphate (K_2HPO_4) pH 6.50. After homogenisation for 30 seconds in a Waring blender, the homogenate was centrifuged at 14,000 x g for 15 minutes, the resultant pellets being discarded. The supernatant fraction was decanted through synthetic cheese cloth to remove lipid particles prior to cellulose phosphate chromatography.

10 g of cellulose phosphate (Whatman) was prepared according to the manufacturer's instructions. The prepared cellulose phosphate was added directly to the supernatant fraction and stirred at room temperature. After one hour the cellulose phosphate was recovered by means of a sintered glass suction funnel, the filtrate being discarded. The cellulose phosphate was transferred to an XK 50/20 column and washed with 0.45 M potassium chloride, pH 7.0, 5 mM β -mercaptoethanol. When a stable UV absorbance was achieved, the column was eluted with 1.0 M KCl, pH 7.0, 5 mM β -mercaptoethanol. The eluted protein was stored at 4°C for at least two weeks. During this period a mass loss of approximately 10kDa was observed from the N-terminus. The new N-terminus, determined by N-terminal sequencing and verified by mass spectroscopy, begins at Leu96, indicating that the N-terminal domain had been lost. This protein was then purified to homogeneity by means of gel filtration chromatography. A Superdex 200 HiLoad 26/60 column (Pharmacia) was equilibrated with 20 mM Tris-hydrochloride, pH 7.00, 10% glycerol, 200 mM sodium chloride, 5 mM β -mercaptoethanol. Several chromatography runs were performed, loading a maximum of 13ml protein solution per run. Eluted fractions were analysed by 4-20% gradient sodium dodecyl sulphate polyacrylamide gel electrophoresis (SDS-PAGE). Those containing a single protein band, of molecular weight c. 70 kDa, were combined and concentrated.

Example 3 – Crystallisation of rabbit AMPDA

30 For crystallisation trials the purified protein was concentrated to 15 mg/ml using Ultra-free Tangential membranes (Millipore) with a molecular weight cut-off of 30kDa. Crystallisation was performed, at 20°C, using the vapour-diffusion technique, with drops containing 2 μ l of protein and 2 μ l of reservoir solution. A number of different crystal

morphologies grew in similar conditions, the best diffracting crystal form, tetragonal rods, were obtained using 1.0 M citric acid (tri-sodium salt, dihydrate) as precipitant and 0.10 M imidazole, in the range pH 7.80 – 8.20, as buffer. The crystals belong to space group $P4_2,2_1$ with cell dimensions of $a=148.7\text{\AA}$, $c=158.6\text{\AA}$, and have a dimer in the asymmetric

5 unit.

Example 4 – Structure Solution

Native data, to 2.2\AA resolution, were collected at station 9.6 of the S.R.S. Daresbury,
10 from crystals frozen at liquid nitrogen temperatures in a cryo-protecting solution comprising of mother liquor plus 20% glycerol. The structure was solved by multiple isomorphous replacement with anomalous scattering using three heavy atom derivatives. Table 1 details data collection and heavy atom statistics; the HKL package (Otwinowski, Z & Minor, W (1997) *Methods Enzymol* 276, 307-326), and the CCP4 (Acta Crystallogr
15 D 50 (1994) 760-763) software suite were used for data processing and analysis. Heavy atom positions were derived from difference Patterson and difference Fourier calculations. The SHARP program (Fortelle E.d.-L. & Bricogne, G. (1997) *Methods Enzymol* 276, 472-494) was used to refine the heavy atom parameters and obtain initial phases, further heavy atom sites were identified from the residual map analysis available
20 in SHARP. The maps were solvent flattened using SOLOMON (Abrahams, J.P. & Leslie, A.G.W. (1996) *Acta Crystallogr. D* 52, 30-42) and 2-fold averaged with the DM program (Cowtan, K. (1994) *Joint CCP4 and ESF-EACBM Newsletter on Protein Crystallography* 31, 34-38).

25 The initial model of AMPDA was traced using the QUANTA package (Molecular Simulations Inc) and refined using all data to 2.2\AA with X-PLOR (Brünger, A.T. (1993) *X-PLOR Version 3.1 A system for X-ray crystallography and NMR*, Yale University Press, New Haven, CT). The torsion angle refinement procedure was used to escape initial local minima. Strict NCS constraints were applied through several cycles of model
30 building and refinement. Individual B-factors were refined. The current model has a $R_{\text{cryst}}=21.2\%$ and a $R_{\text{free}}=25.4\%$, calculated on 5% of the data set (Brünger, A.T. (1992) *Nature* 355, 472-475).

Table 1. Crystallographic data and refinement statistics.

Data Sets (soaking conditions)	Native	Trimethyl Lead Acetate	Xenon	Silver Nitrate
X-ray Source	Station 9.6, SRS	1) Rotating anode 2) Station 9.6, SRS	8bar, 7 minutes	0.1mM, 30 minutes
Maximum Resolution (Å)	2.2	1) 3.3, 2) 2.8	1) 3.0, 2) 2.2	2.5
Phasing Power (ios / anom)		1) 1.0 / 1.2 2) 2.0 / 1.0	1) 2.6 / 1.7 1.6	1.0
Refinement Stats	native	Coformycin	UK-384,858	
Resolution range	30-2.2Å	30-2.5Å	3.0-2.2Å	
Observations	1,079,312			
Uniques	84,264			
Completeness	99.9%	96%	97%	
Rmerge*	8.4%	9%	7%	

* Rmerge is as implemented by Otwinowski, Z & Minor, W. (1997) Methods Enzymol 276, 307-326.

The monomer structure can be described as follows. The catalytic domain of AMPDA is constructed around a core comprising the well precededented ($\beta\alpha$)₈ barrel fold (Brändén, C.-I. (1991) *Curr. Op. Struc. Biol.* 1, 978-983). N-terminal to this barrel are five helices, a large loop and two short anti-parallel strands. These features wrap around the barrel

5 forming an outer layer to the domain. Several additional secondary structural features are inserted between the secondary structural elements that comprise the barrel. Three helices are inserted in the loop between the first strand and helix of the barrel, and two short helices are inserted immediately after the barrel's third strand and third helix respectively. C-terminal to the ($\beta\alpha$)₈ motif are three further helices, the first lies across the NH₂-
10 terminal of the β -barrel, the second is short and packs anti-parallel to the first, while the third makes extensive contacts with the additional N-terminal helices. In total the enzyme contains 21 helices and 10 strands. By precedent the helices and strands of the ($\beta\alpha$)₈-barrel are identified α 1 through α 8 and β 1 through β 8. The additional N-terminal helices and strands are labelled α 01 through α 05, β 01 and β 02 respectively. Helices
15 inserted within the barrel-fold are termed α 1'1 through α 1'3, α 3' and α 4' to indicate their position in the fold, while the C-terminal helices are referred to as α 9 through α 11 (The nomenclature scheme is adapted from that of Wilson, D.K., Rudolph, F.B. & Quiocho, F.A. ((1991) *Science* 252, 1278-1284). A Zn²⁺ ion is bound at the C-terminus of the barrel at the bottom of a large cleft in the enzyme surface. The sides of this cleft are formed by
20 the additional helices between the first and second strands of the barrel and the helix immediately following the third strand. This cleft contains the enzyme's active site. The structure is depicted in figure 1.

The Zn²⁺ co-ordination geometry best fits the trigonal bipyramid class (Alberts, I.L.,
25 Nadassy, K. & Wodak, S.J. (1998) *Protein Science* 7, 1700-1716), involving four residues, three histidines (His303, 305 and 572) and Asp649. The remaining co-ordination site can be accounted for as a discrete density peak about 1.8Å from the Zn²⁺ was observed throughout refinement and was modelled as the activated water molecule required for catalysis.

30

Four disordered regions have not been modelled in the apo-structure. Density is not observed for the N-terminal 10 residues, a six residue loop immediately prior to the first

helix cannot be modelled, 11 residues forming a loop close to the active site are disordered and the two C-terminal residues are absent.

A tetramer is observed in the crystals (figure 2). Two sub-units are packed around a non-crystallographic diad axis forming the asymmetric unit. This dimer is packed around the crystallographic 2-fold axis in *z* to give the physiologically observed tetramer. An extensive buried surface indicates that the tetramer is tightly associated, and inter-subunit contacts are made almost exclusively by the helices additional to the $(\beta\alpha)_8$ barrel.

The atomic coordinates are given in Table 2.

Example 5 – Soaking of AMPDA with inhibitors and structure solution of enzyme-inhibitor complexes

The coformycin and UK-384,858 enzyme inhibitor complexes were prepared by soaking the crystals in a solution corresponding to the well solution plus 10mM inhibitor. The crystals were shown to tolerate DMSO concentrations of 10% and higher, allowing inhibitors with a relatively low solubility, such as UK-384,858, to be used. Data were collected as described above, the inhibitor structures were modelled into initial difference maps, using the QUANTA software, and have been refined in X-PLOR to give $R_{\text{cryst}}=20.7\%$ ($R_{\text{free}}=26.1\%$), and $R_{\text{cryst}}=22.9\%$ ($R_{\text{free}}=25.8\%$) respectively. All three structures presented have good stereochemistry as judged by the PROCHECK program (Laskowski, R.A. et al (1993) *J. Appl. Crystallogr.* 26, 283-291). Figures were prepared using the software packages MOLSCRIPT (Kraulis, P.J. (1991) *J. Appl. Crystallogr.* 24, 946-950) and RASTER3D (Meritt, E.A. & Murphy, M.E.P. (1994) *Acta Crystallogr. D* 50, 869-873).

a) The complex with Coformycin

The structure of the enzyme complexed with coformycin (the structure of which is shown in figure 3) at 2.5Å resolution shows the inhibitor bound at the base of the active site cleft. The seven-membered ring binds in a pocket which can accommodate the substrate's adenosine group. The 8-hydroxyl displaces the activated water seen in the apo-structure and hydrogen bonds the Zn^{2+} . The hydroxyl to Zn^{2+} distance is 1.8Å. The tetrahedral

geometry observed at the C8 position is consistent with coformycin being a transition-state analogue inhibitor of the enzyme. The 11 residues (366-377), disordered in the apo-structure, pack against the bicyclic ring system forming a loop and short (three turn) helix motif, termed the 370 helix. The 370 helix is amphipathic and the hydrophobic face

-
- 5 contains two phenylalanine residues (Phe372 and Phe375) which pack against the inhibitor entirely enclosing this portion of the binding site from solvent. The stacking interactions made between the inhibitor ring system and these aromatic residues stabilise the disordered loop. Key inhibitor recognition features include two hydrogen bonds made by acidic residues in the binding site. Asp650 forms a hydrogen bond with N1 of
- 10 coformycin (D650 O81 – N1, 2.3Å) and is co-planar with the ring, while Glu575 is 2.9Å from N6 and has good geometry to accept a proton. The main chain amide group of Asp513 is positioned to act as a hydrogen bond donating group with the N4 atom of the inhibitor as the acceptor, the distance between these two atoms is however too large (4.4Å) for a good hydrogen bond to be made. Additional residues involved in van der
- 15 Waals interactions in the purine binding pocket include the Zn²⁺ co-ordinating residues His305 and His594. The bicyclic ring system of the inhibitor packs against the plane of these histidine residues and is essentially sandwiched between these aromatic side chains and the two ordered phenylalanine residues of the 370 helix (figure 4).
- 20 The ribose binding site is less tightly defined. Two hydrogen bonds are made by hydroxyl groups, the 2'-OH is 3.0Å from Asn376 N82 and the 5'-OH group is 3.2Å from Gln458 N81. The orientation of Gln458 is fixed in a position to form this hydrogen bond by a hydrogen bonding network through His305 to the catalytic zinc. van der Waals interactions are made by the ribose ring to four hydrophobic side-chains, namely Pro460,
- 25 Val512, Phe375 and Tyr379 (figure 4). The location of the phosphate binding site can be predicted from the structure of the complex with coformycin, the basic residues Lys393 and Arg388 are ideally positioned to co-ordinate a phosphate group as are the main-chain NH groups of the flexible loop of alanine residues 306-308.
- 30 The atomic coordinates are shown in Table 3.

b) The complex with UK-384,858

A number of AMPDA specific inhibitors, based around coformycin, have been reported (Erion, M.D. et al (1999) J. Am. Chem. Soc. 121, 308-319; Bookser, B.C. et al. (2000) J. Med. Chem. 43, 1495-1507). UK-384,858 (figure 3) is a potent of example of these inhibitors in which the ribose unit of coformycin has been replaced by an ethyl linked naphthalene group with a carbocyclic acid substituent. The crystal structure of the enzyme inhibitor complex has been solved and refined at 2.2Å resolution. The complex is consistent with that observed with coformycin; the ordering of the active site, tetrahedral transition state geometry binding of the Zn^{2+} , and all previously described interactions in the purine binding site are observed. The naphthalene group is seen to pack in a highly hydrophobic environment making van der Waals interactions with residues Pro460, Ile462, Phe372 and the C α atom of Asp513. The ethyl linker group is also involved in hydrophobic contacts with Phe375. The acidic group is shown to be within hydrogen bonding distance of Tyr429, Ser427 and Arg388 (figure 5).

The atomic coordinates for this structure are shown in Table 4.

Example 6 - Homology with adenosine deaminase: mechanism conservation

Despite having diverse sequences, AMPDA shares a conserved catalytic mechanism with adenosine deaminase (ADA). ADA is a monomeric, 40 kDalton, protein which catalyses the hydrolysis of adenosine to inosine (Wilson, D.K., Rudolph, F.B. & Quioco, F.A. (1991) Science 252, 1278-1284). In common with AMPDA, ADA co-ordinates a catalytic zinc atom within a $(\beta\alpha)_8$ barrel. The inserted loop, containing 3 helices, between the first strand and helix of the barrel is common to both enzymes and forms part of a highly conserved purine binding site (Sharff, A.J. et al (1992) J. Mol. Biol. 226, 917-921).

The mechanism of ADA has been examined extensively by a combination of crystallographic (Wang, Z. & Quioco, F.A. (1998) Biochemistry 37, 8314-8324) and site-directed mutagenesis studies (Sideraki, V. et al (1996) Biochemistry 35, 15019-15028). All the residues identified as being important for the mechanism of ADA are

equivalent in AMPDA and it is clear that the mechanism has been conserved in evolution. The reaction has been described in two stages: an initial stereo-specific hydroxide addition to form a tetrahedral (at the substrate C6 position) transition-state intermediate, and a final ammonia elimination to form the inosine product. The Zn^{2+} acts as a powerful

5 electrophile, as demonstrated by the presence of the hydroxide ion (activated water) in the apo-AMPDA structure and the analogous observation reported in an ADA inhibitor complex structure (Wilson, D.K. & Quijcho, F.A. (1993) *Biochemistry* 32, 1689-1694). The transition state is stabilised by the Glu575 - substrate N6 interaction. His238 in ADA, which is equivalent to His594 in AMPDA, has been shown to promote hydroxide
10 formation, while Asp649 is positioned to orientate the hydroxide oxygen in line for addition to C6 (figure 6). The position of the Zn^{2+} ion and Asp649 dictate the pro-S stereo-specificity of the reaction.

The second stage, the elimination of ammonia, is less well understood. Two pathways
15 have been postulated, either Asp649 or Glu575 acts as the shuttle for the proton from the 6-OH to the 6-NH₂ of the tetrahedral intermediate (Wilson, D.K. & Quijcho, F.A. (1993) *Biochemistry* 32, 1689-1694).

Example 7 – Assay for AMPDA activity

20 There are many assays for AMPDA activity in the prior art (e.g. as in Smiley, K.L., Berry, A.J. & Suelter, C.H. (1967) *J. Biol. Chem.* 242, 2502-2506). Typically, the assay was performed in microtitre plates. To each well, 10 μl of test compound, diluted in sodium citrate buffer (10mM, pH 6.5) with 10% DMSO and 70 μl of sodium citrate buffer were
25 added; the plate was mixed with a plate shaker. Then 10 μl of enzyme stock solution in 1M KCl were added, and the plate was mixed again, and incubated for 5 minutes. This was followed by the addition of 10 μl substrate solution (10 mM 5'-AMP in sodium citrate buffer). After mixing and 5 minutes incubation, 150 μl of Ninhydrin reagent (Sigma, N1632) were added to each well to stop the reaction. The plate was then covered
30 and left overnight for the colour to develop. The absorbance at 570 nm was measured with an appropriate standard plate reader (e.g. Molecular Devices Spectramax Plus).

Table 2: Atomic coordinates for native AMPDA

REMARK xplor input												
CRYST1 148.662 148.662 158.563 90.00 90.00 90.00 P42212												
5	SCALE1	0.00673	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	SCALE2	0.00000	0.00673	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
	SCALE3	0.00000	0.00000	0.00631	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
REMARK FILENAME="brefinement2.pdb"												
REMARK r= 0.217303 free_r= 0.253691												
10	REMARK	DATE:07-Apr-00	09:55:33	created by user: chrisp								
	ATOM	1	CB	SER A 106	17.660	72.293	93.304	1.00	36.73	A	C	
	ATOM	2	OG	SER A 106	18.932	72.331	92.673	1.00	39.63	A	O	
	ATOM	3	C	SER A 106	18.780	74.233	94.425	1.00	37.36	A	C	
	ATOM	4	O	SER A 106	18.616	75.314	93.843	1.00	39.40	A	O	
15	ATOM	5	N	SER A 106	16.286	73.863	94.664	1.00	35.79	A	N	
	ATOM	6	CA	SER A 106	17.632	73.212	94.528	1.00	38.08	A	C	
	ATOM	7	N	PRO A 107	19.969	73.879	94.961	1.00	34.45	A	N	
	ATOM	8	CD	PRO A 107	20.279	72.578	95.575	1.00	31.68	A	C	
	ATOM	9	CA	PRO A 107	21.144	74.757	94.942	1.00	32.61	A	C	
20	ATOM	10	CB	PRO A 107	22.240	73.916	95.589	1.00	29.27	A	C	
	ATOM	11	CG	PRO A 107	21.536	72.853	96.322	1.00	30.06	A	C	
	ATOM	12	C	PRO A 107	21.555	75.222	93.544	1.00	36.30	A	C	
	ATOM	13	O	PRO A 107	21.972	76.370	93.363	1.00	36.38	A	O	
	ATOM	14	N	THR A 108	21.433	74.335	92.557	1.00	36.49	A	N	
25	ATOM	15	CA	THR A 108	21.819	74.658	91.182	1.00	36.24	A	C	
	ATOM	16	CB	THR A 108	21.773	73.396	90.284	1.00	35.59	A	C	
	ATOM	17	OG1	THR A 108	20.411	73.069	89.988	1.00	40.24	A	O	
	ATOM	18	CG2	THR A 108	22.431	72.211	90.988	1.00	34.71	A	C	
	ATOM	19	C	THR A 108	21.019	75.776	90.497	1.00	34.95	A	C	
30	ATOM	20	O	THR A 108	21.460	76.312	89.478	1.00	38.35	A	O	
	ATOM	21	N	TYR A 109	19.861	76.144	91.043	1.00	33.44	A	N	
	ATOM	22	CA	TYR A 109	19.063	77.196	90.423	1.00	30.09	A	C	
	ATOM	23	CB	TYR A 109	17.578	76.919	90.632	1.00	30.13	A	C	
	ATOM	24	CG	TYR A 109	17.004	76.001	89.574	1.00	32.99	A	C	
35	ATOM	25	CD1	TYR A 109	17.628	74.785	89.266	1.00	32.21	A	C	
	ATOM	26	CE1	TYR A 109	17.095	73.914	88.302	1.00	31.44	A	C	
	ATOM	27	CD2	TYR A 109	15.830	76.333	88.887	1.00	31.39	A	C	
	ATOM	28	CE2	TYR A 109	15.287	75.471	87.921	1.00	30.63	A	C	
	ATOM	29	CZ	TYR A 109	15.925	74.262	87.637	1.00	30.96	A	C	
40	ATOM	30	OH	TYR A 109	15.385	73.396	86.709	1.00	30.15	A	O	
	ATOM	31	C	TYR A 109	19.405	78.594	90.920	1.00	28.39	A	C	
	ATOM	32	O	TYR A 109	18.695	79.553	90.626	1.00	26.10	A	O	
	ATOM	33	N	GLN A 110	20.502	78.713	91.661	1.00	26.96	A	N	
	ATOM	34	CA	GLN A 110	20.913	80.011	92.190	1.00	28.12	A	C	
45	ATOM	35	CB	GLN A 110	22.230	79.876	92.976	1.00	30.05	A	C	
	ATOM	36	CG	GLN A 110	22.643	81.138	93.763	1.00	31.07	A	C	
	ATOM	37	CD	GLN A 110	21.683	81.470	94.912	1.00	32.52	A	C	
	ATOM	38	OE1	GLN A 110	20.785	80.681	95.238	1.00	34.45	A	O	
	ATOM	39	NE2	GLN A 110	21.871	82.639	95.528	1.00	28.58	A	N	
50	ATOM	40	C	GLN A 110	21.130	80.974	91.037	1.00	28.33	A	C	
	ATOM	41	O	GLN A 110	21.056	82.193	91.186	1.00	26.06	A	O	
	ATOM	42	N	THR A 111	21.372	80.386	89.873	1.00	27.56	A	N	
	ATOM	43	CA	THR A 111	21.678	81.102	88.659	1.00	23.00	A	C	
	ATOM	44	CB	THR A 111	22.874	80.373	88.022	1.00	25.72	A	C	
55	ATOM	45	OG1	THR A 111	23.994	81.253	87.999	1.00	30.39	A	O	
	ATOM	46	CG2	THR A 111	22.570	79.878	86.661	1.00	22.63	A	C	
	ATOM	47	C	THR A 111	20.509	81.239	87.682	1.00	23.00	A	C	
	ATOM	48	O	THR A 111	20.606	81.952	86.679	1.00	21.80	A	O	
	ATOM	49	N	VAL A 112	19.396	80.579	87.995	1.00	19.03	A	N	
60	ATOM	50	CA	VAL A 112	18.216	80.586	87.136	1.00	17.22	A	C	
	ATOM	51	CB	VAL A 112	17.575	79.196	87.128	1.00	15.07	A	C	
	ATOM	52	CG1	VAL A 112	16.369	79.178	86.208	1.00	12.58	A	C	
	ATOM	53	CG2	VAL A 112	18.619	78.154	86.719	1.00	12.59	A	C	
	ATOM	54	C	VAL A 112	17.135	81.596	87.510	1.00	17.71	A	C	
65	ATOM	55	O	VAL A 112	16.541	81.485	88.572	1.00	18.11	A	O	
	ATOM	56	N	PRO A 113	16.854	82.582	86.627	1.00	16.70	A	N	

	ATOM	57	CD	PRO	A	113	17.480	82.811	85.315	1.00	13.13	A	C
	ATOM	58	CA	PRO	A	113	15.820	83.585	86.920	1.00	15.12	A	C
	ATOM	59	CB	PRO	A	113	15.863	84.525	85.721	1.00	14.74	A	C
	ATOM	60	CG	PRO	A	113	17.144	84.229	85.025	1.00	13.40	A	C
5	ATOM	61	C	PRO	A	113	14.453	82.930	87.041	1.00	16.90	A	C
	ATOM	62	O	PRO	A	113	14.263	81.780	86.635	1.00	16.26	A	O
	ATOM	63	N	ASP	A	114	13.501	83.652	87.615	1.00	17.91	A	N
	ATOM	64	CA	ASP	A	114	12.157	83.114	87.737	1.00	19.86	A	C
	ATOM	65	CB	ASP	A	114	11.300	83.996	88.656	1.00	25.19	A	C
10	ATOM	66	CG	ASP	A	114	11.690	83.884	90.126	1.00	32.77	A	C
	ATOM	67	OD1	ASP	A	114	12.242	82.836	90.537	1.00	37.08	A	O
	ATOM	68	OD2	ASP	A	114	11.436	84.855	90.877	1.00	37.82	A	O
	ATOM	69	C	ASP	A	114	11.547	83.145	86.330	1.00	18.50	A	C
	ATOM	70	O	ASP	A	114	12.011	83.886	85.457	1.00	18.75	A	O
15	ATOM	71	N	PHE	A	115	10.526	82.331	86.111	1.00	14.13	A	N
	ATOM	72	CA	PHE	A	115	9.810	82.320	84.849	1.00	13.56	A	C
	ATOM	73	CB	PHE	A	115	10.681	81.775	83.691	1.00	13.44	A	C
	ATOM	74	CG	PHE	A	115	11.061	80.320	83.802	1.00	11.10	A	C
	ATOM	75	CD1	PHE	A	115	12.246	79.946	84.426	1.00	11.56	A	C
20	ATOM	76	CD2	PHE	A	115	10.274	79.333	83.220	1.00	12.79	A	C
	ATOM	77	CE1	PHE	A	115	12.645	78.613	84.470	1.00	11.59	A	C
	ATOM	78	CE2	PHE	A	115	10.671	77.977	83.257	1.00	14.84	A	C
	ATOM	79	CZ	PHE	A	115	11.862	77.625	83.887	1.00	12.71	A	C
	ATOM	80	C	PHE	A	115	8.526	81.535	85.037	1.00	12.44	A	C
25	ATOM	81	O	PHE	A	115	8.427	80.734	85.962	1.00	15.08	A	O
	ATOM	82	N	GLN	A	116	7.526	81.798	84.203	1.00	10.82	A	N
	ATOM	83	CA	GLN	A	116	6.259	81.096	84.318	1.00	12.72	A	C
	ATOM	84	CB	GLN	A	116	5.171	81.865	83.589	1.00	12.76	A	C
	ATOM	85	CG	GLN	A	116	5.117	83.312	83.999	1.00	17.63	A	C
30	ATOM	86	CD	GLN	A	116	3.890	84.007	83.463	1.00	20.43	A	C
	ATOM	87	OE1	GLN	A	116	3.959	84.679	82.448	1.00	22.40	A	O
	ATOM	88	NE2	GLN	A	116	2.754	83.840	84.140	1.00	23.33	A	N
	ATOM	89	C	GLN	A	116	6.345	79.682	83.770	1.00	13.02	A	C
	ATOM	90	O	GLN	A	116	6.800	79.452	82.654	1.00	14.41	A	O
35	ATOM	91	N	ARG	A	117	5.893	78.727	84.561	1.00	14.81	A	N
	ATOM	92	CA	ARG	A	117	5.940	77.345	84.140	1.00	14.81	A	C
	ATOM	93	CB	ARG	A	117	6.579	76.506	85.230	1.00	14.79	A	C
	ATOM	94	CG	ARG	A	117	8.076	76.534	85.162	1.00	19.17	A	C
	ATOM	95	CD	ARG	A	117	8.618	76.773	86.522	1.00	22.56	A	C
40	ATOM	96	NE	ARG	A	117	10.022	76.402	86.625	1.00	21.56	A	N
	ATOM	97	CZ	ARG	A	117	10.951	77.214	87.107	1.00	20.65	A	C
	ATOM	98	NH1	ARG	A	117	10.603	78.428	87.518	1.00	21.34	A	N
	ATOM	99	NH2	ARG	A	117	12.213	76.811	87.194	1.00	17.04	A	N
	ATOM	100	C	ARG	A	117	4.564	76.827	83.852	1.00	14.88	A	C
45	ATOM	101	O	ARG	A	117	3.571	77.346	84.367	1.00	18.01	A	O
	ATOM	102	N	VAL	A	118	4.482	75.805	83.021	1.00	14.84	A	N
	ATOM	103	CA	VAL	A	118	3.176	75.252	82.763	1.00	17.65	A	C
	ATOM	104	CB	VAL	A	118	2.877	75.064	81.215	1.00	19.65	A	C
	ATOM	105	CG1	VAL	A	118	4.021	75.641	80.367	1.00	18.38	A	C
50	ATOM	106	CG2	VAL	A	118	2.589	73.597	80.889	1.00	18.29	A	C
	ATOM	107	C	VAL	A	118	3.137	73.947	83.520	1.00	16.98	A	C
	ATOM	108	O	VAL	A	118	4.012	73.099	83.375	1.00	19.34	A	O
	ATOM	109	N	GLN	A	119	2.144	73.806	84.383	1.00	19.99	A	N
	ATOM	110	CA	GLN	A	119	2.022	72.566	85.120	1.00	22.25	A	C
55	ATOM	111	CB	GLN	A	119	2.380	72.772	86.584	1.00	24.57	A	C
	ATOM	112	CG	GLN	A	119	1.628	73.874	87.255	1.00	34.50	A	C
	ATOM	113	CD	GLN	A	119	1.860	73.864	88.755	1.00	42.66	A	C
	ATOM	114	OE1	GLN	A	119	0.939	73.607	89.540	1.00	44.02	A	O
	ATOM	115	NE2	GLN	A	119	3.101	74.133	89.162	1.00	41.01	A	N
60	ATOM	116	C	GLN	A	119	0.631	71.982	84.970	1.00	18.77	A	C
	ATOM	117	O	GLN	A	119	-0.360	72.699	84.859	1.00	19.15	A	O
	ATOM	118	N	ILE	A	120	0.585	70.660	84.957	1.00	17.36	A	N
	ATOM	119	CA	ILE	A	120	-0.642	69.936	84.775	1.00	17.71	A	C
	ATOM	120	CB	ILE	A	120	-0.434	68.791	83.740	1.00	14.99	A	C
65	ATOM	121	CG2	ILE	A	120	-1.745	68.078	83.469	1.00	11.38	A	C
	ATOM	122	CG1	ILE	A	120	0.207	69.354	82.466	1.00	12.22	A	C
	ATOM	123	CD1	ILE	A	120	-0.488	70.558	81.858	1.00	11.20	A	C
	ATOM	124	C	ILE	A	120	-1.095	69.351	86.099	1.00	19.36	A	C

	ATOM	125	O	ILE	A	120	-0.355	68.632	86.753	1.00	17.41	A	O
	ATOM	126	N	THR	A	121	-2.324	69.659	86.485	1.00	20.51	A	N
	ATOM	127	CA	THR	A	121	-2.881	69.136	87.719	1.00	23.82	A	C
5	ATOM	128	CB	THR	A	121	-3.870	70.119	88.337	1.00	21.31	A	C
	ATOM	129	OG1	THR	A	121	-5.124	69.979	87.675	1.00	25.83	A	O
	ATOM	130	CG2	THR	A	121	-3.398	71.536	88.188	1.00	21.53	A	C
	ATOM	131	C	THR	A	121	-3.641	67.852	87.405	1.00	27.24	A	C
	ATOM	132	O	THR	A	121	-3.999	67.605	86.261	1.00	31.10	A	O
10	ATOM	133	N	GLY	A	122	-3.882	67.030	88.419	1.00	30.42	A	N
	ATOM	134	CA	GLY	A	122	-4.632	65.803	88.198	1.00	35.25	A	C
	ATOM	135	C	GLY	A	122	-3.818	64.553	87.925	1.00	39.16	A	C
	ATOM	136	O	GLY	A	122	-2.614	64.621	87.638	1.00	39.38	A	O
	ATOM	137	N	ASP	A	123	-4.494	63.406	88.008	1.00	41.48	A	N
15	ATOM	138	CA	ASP	A	123	-3.874	62.102	87.787	1.00	44.93	A	C
	ATOM	139	CB	ASP	A	123	-4.684	60.999	88.481	1.00	50.08	A	C
	ATOM	140	CG	ASP	A	123	-5.004	61.327	89.933	1.00	55.60	A	C
	ATOM	141	OD1	ASP	A	123	-4.060	61.631	90.700	1.00	58.56	A	O
	ATOM	142	OD2	ASP	A	123	-6.200	61.277	90.307	1.00	59.98	A	O
20	ATOM	143	C	ASP	A	123	-3.785	61.778	86.310	1.00	44.98	A	C
	ATOM	144	O	ASP	A	123	-4.733	62.012	85.558	1.00	46.21	A	O
	ATOM	145	N	TYR	A	124	-2.656	61.218	85.895	1.00	44.90	A	N
	ATOM	146	CA	TYR	A	124	-2.476	60.861	84.493	1.00	46.23	A	C
	ATOM	147	CB	TYR	A	124	-0.985	60.739	84.180	1.00	43.26	A	C
25	ATOM	148	CG	TYR	A	124	-0.388	62.055	83.768	1.00	37.95	A	C
	ATOM	149	CD1	TYR	A	124	0.302	62.836	84.687	1.00	35.00	A	C
	ATOM	150	CE1	TYR	A	124	0.793	64.090	84.339	1.00	35.93	A	C
	ATOM	151	CD2	TYR	A	124	-0.572	62.552	82.481	1.00	34.94	A	C
	ATOM	152	CE2	TYR	A	124	-0.083	63.807	82.123	1.00	36.99	A	C
30	ATOM	153	CZ	TYR	A	124	0.598	64.573	83.061	1.00	32.61	A	C
	ATOM	154	OH	TYR	A	124	1.071	65.819	82.730	1.00	30.82	A	O
	ATOM	155	C	TYR	A	124	-3.204	59.564	84.117	1.00	48.00	A	C
	ATOM	156	O	TYR	A	124	-2.781	58.487	84.608	1.00	50.21	A	O
	ATOM	157	OT	TYR	A	124	-4.190	59.643	83.341	1.00	47.96	A	O
35	ATOM	158	CB	ASP	B	132	-2.925	48.884	79.818	1.00	50.62	B	C
	ATOM	159	CG	ASP	B	132	-3.086	49.237	78.337	1.00	56.63	B	C
	ATOM	160	OD1	ASP	B	132	-3.417	50.410	78.033	1.00	57.78	B	O
	ATOM	161	OD2	ASP	B	132	-2.881	48.344	77.478	1.00	58.24	B	O
	ATOM	162	C	ASP	B	132	-0.464	49.378	79.977	1.00	42.53	B	C
40	ATOM	163	O	ASP	B	132	0.435	49.247	79.145	1.00	40.42	B	O
	ATOM	164	N	ASP	B	132	-1.527	47.726	81.524	1.00	43.34	B	N
	ATOM	165	CA	ASP	B	132	-1.538	48.299	80.141	1.00	45.78	B	C
	ATOM	166	N	PHE	B	133	-0.576	50.453	80.753	1.00	41.07	B	N
	ATOM	167	CA	PHE	B	133	0.413	51.526	80.703	1.00	40.85	B	C
45	ATOM	168	CB	PHE	B	133	0.030	52.686	81.639	1.00	38.88	B	C
	ATOM	169	CG	PHE	B	133	1.081	53.777	81.724	1.00	40.37	B	C
	ATOM	170	CD1	PHE	B	133	1.302	54.460	82.919	1.00	36.29	B	C
	ATOM	171	CD2	PHE	B	133	1.854	54.123	80.597	1.00	40.45	B	C
	ATOM	172	CE1	PHE	B	133	2.273	55.470	82.991	1.00	37.05	B	C
50	ATOM	173	CE2	PHE	B	133	2.830	55.134	80.660	1.00	35.98	B	C
	ATOM	174	CZ	PHE	B	133	3.038	55.805	81.854	1.00	36.72	B	C
	ATOM	175	C	PHE	B	133	1.671	50.865	81.224	1.00	41.21	B	C
	ATOM	176	O	PHE	B	133	2.792	51.199	80.844	1.00	42.36	B	O
	ATOM	177	N	GLU	B	134	1.445	49.907	82.109	1.00	40.24	B	N
55	ATOM	178	CA	GLU	B	134	2.500	49.145	82.733	1.00	39.62	B	C
	ATOM	179	CB	GLU	B	134	1.878	48.038	83.572	1.00	45.49	B	C
	ATOM	180	CG	GLU	B	134	2.422	47.956	84.979	1.00	52.21	B	C
	ATOM	181	CD	GLU	B	134	3.184	46.668	85.225	1.00	57.35	B	C
	ATOM	182	OE1	GLU	B	134	2.809	45.624	84.632	1.00	59.46	B	O
60	ATOM	183	OE2	GLU	B	134	4.159	46.705	86.011	1.00	59.41	B	O
	ATOM	184	C	GLU	B	134	3.423	48.547	81.689	1.00	36.67	B	C
	ATOM	185	O	GLU	B	134	4.641	48.715	81.754	1.00	35.25	B	O
	ATOM	186	N	ILE	B	135	2.839	47.841	80.728	1.00	33.51	B	N
	ATOM	187	CA	ILE	B	135	3.634	47.226	79.681	1.00	31.78	B	C
	ATOM	188	CB	ILE	B	135	2.782	46.261	78.800	1.00	34.95	B	C
65	ATOM	189	CG2	ILE	B	135	1.761	45.538	79.666	1.00	34.31	B	C
	ATOM	190	CG1	ILE	B	135	2.080	47.031	77.678	1.00	39.33	B	C
	ATOM	191	CD1	ILE	B	135	2.645	46.764	76.280	1.00	41.33	B	C
	ATOM	192	C	ILE	B	135	4.285	48.294	78.808	1.00	29.27	B	C

	ATOM	193	O	ILE	B	135	5.359	48.078	78.259	1.00	30.63	B	O
	ATOM	194	N	VAL	B	136	3.644	49.450	78.672	1.00	25.60	B	N
	ATOM	195	CA	VAL	B	136	4.226	50.513	77.871	1.00	22.13	B	C
	ATOM	196	CB	VAL	B	136	3.237	51.677	77.675	1.00	20.14	B	C
5	ATOM	197	CG1	VAL	B	136	3.937	52.851	77.023	1.00	19.88	B	C
	ATOM	198	CG2	VAL	B	136	2.071	51.222	76.813	1.00	20.13	B	C
	ATOM	199	C	VAL	B	136	5.472	51.022	78.599	1.00	22.77	B	C
	ATOM	200	O	VAL	B	136	6.542	51.146	78.011	1.00	21.77	B	O
10	ATOM	201	N	CYS	B	137	5.326	51.298	79.892	1.00	21.47	B	N
	ATOM	202	CA	CYS	B	137	6.424	51.794	80.716	1.00	19.12	B	C
	ATOM	203	CB	CYS	B	137	5.924	52.046	82.126	1.00	18.20	B	C
	ATOM	204	SG	CYS	B	137	5.065	53.597	82.316	1.00	27.25	B	S
	ATOM	205	C	CYS	B	137	7.565	50.799	80.760	1.00	18.77	B	C
	ATOM	206	O	CYS	B	137	8.737	51.170	80.781	1.00	16.87	B	O
15	ATOM	207	N	LYS	B	138	7.208	49.524	80.794	1.00	19.01	B	N
	ATOM	208	CA	LYS	B	138	8.205	48.468	80.822	1.00	22.36	B	C
	ATOM	209	CB	LYS	B	138	7.530	47.123	81.009	1.00	23.88	B	C
	ATOM	210	CG	LYS	B	138	7.431	46.713	82.458	1.00	31.95	B	C
20	ATOM	211	CD	LYS	B	138	6.385	45.629	82.645	1.00	38.85	B	C
	ATOM	212	CE	LYS	B	138	6.270	45.207	84.105	1.00	41.25	B	C
	ATOM	213	NZ	LYS	B	138	6.809	43.828	84.313	1.00	43.92	B	N
	ATOM	214	C	LYS	B	138	9.002	48.462	79.531	1.00	20.08	B	C
	ATOM	215	O	LYS	B	138	10.221	48.325	79.551	1.00	21.21	B	O
25	ATOM	216	N	GLY	B	139	8.296	48.630	78.417	1.00	19.40	B	N
	ATOM	217	CA	GLY	B	139	8.926	48.640	77.109	1.00	16.07	B	C
	ATOM	218	C	GLY	B	139	9.891	49.789	76.932	1.00	13.96	B	C
	ATOM	219	O	GLY	B	139	11.007	49.583	76.468	1.00	16.13	B	O
	ATOM	220	N	LEU	B	140	9.468	50.995	77.299	1.00	13.51	B	N
30	ATOM	221	CA	LEU	B	140	10.318	52.164	77.170	1.00	13.76	B	C
	ATOM	222	CB	LEU	B	140	9.534	53.424	77.535	1.00	13.91	B	C
	ATOM	223	CG	LEU	B	140	8.373	53.749	76.571	1.00	16.60	B	C
	ATOM	224	CD1	LEU	B	140	7.692	55.035	77.021	1.00	12.84	B	C
	ATOM	225	CD2	LEU	B	140	8.890	53.906	75.144	1.00	10.66	B	C
35	ATOM	226	C	LEU	B	140	11.525	51.992	78.075	1.00	13.67	B	C
	ATOM	227	O	LEU	B	140	12.638	52.418	77.758	1.00	10.79	B	O
	ATOM	228	N	TYR	B	141	11.308	51.344	79.212	1.00	16.30	B	N
	ATOM	229	CA	TYR	B	141	12.395	51.100	80.150	1.00	15.65	B	C
	ATOM	230	CB	TYR	B	141	11.858	50.460	81.429	1.00	18.25	B	C
40	ATOM	231	CG	TYR	B	141	12.950	49.824	82.255	1.00	17.37	B	C
	ATOM	232	CD1	TYR	B	141	13.204	48.457	82.164	1.00	16.87	B	C
	ATOM	233	CE1	TYR	B	141	14.257	47.877	82.858	1.00	21.83	B	C
	ATOM	234	CD2	TYR	B	141	13.775	50.602	83.074	1.00	17.63	B	C
	ATOM	235	CE2	TYR	B	141	14.836	50.035	83.776	1.00	18.98	B	C
45	ATOM	236	CZ	TYR	B	141	15.077	48.666	83.661	1.00	23.23	B	C
	ATOM	237	OH	TYR	B	141	16.164	48.090	84.305	1.00	23.56	B	O
	ATOM	238	C	TYR	B	141	13.434	50.171	79.511	1.00	14.61	B	C
	ATOM	239	O	TYR	B	141	14.632	50.478	79.469	1.00	12.05	B	O
	ATOM	240	N	ARG	B	142	12.975	49.025	79.021	1.00	14.66	B	N
50	ATOM	241	CA	ARG	B	142	13.893	48.090	78.398	1.00	16.98	B	C
	ATOM	242	CB	ARG	B	142	13.161	46.809	77.968	1.00	16.06	B	C
	ATOM	243	CG	ARG	B	142	14.051	45.918	77.097	1.00	23.31	B	C
	ATOM	244	CD	ARG	B	142	13.752	44.418	77.140	1.00	23.42	B	C
	ATOM	245	NE	ARG	B	142	14.778	43.712	76.357	1.00	29.80	B	N
55	ATOM	246	CZ	ARG	B	142	14.576	42.621	75.617	1.00	31.59	B	C
	ATOM	247	NH1	ARG	B	142	13.362	42.076	75.548	1.00	30.32	B	N
	ATOM	248	NH2	ARG	B	142	15.584	42.097	74.911	1.00	23.93	B	N
	ATOM	249	C	ARG	B	142	14.621	48.740	77.208	1.00	17.28	B	C
	ATOM	250	O	ARG	B	142	15.826	48.537	77.031	1.00	18.55	B	O
60	ATOM	251	N	ALA	B	143	13.910	49.548	76.420	1.00	15.61	B	N
	ATOM	252	CA	ALA	B	143	14.532	50.206	75.266	1.00	13.78	B	C
	ATOM	253	CB	ALA	B	143	13.499	51.022	74.498	1.00	13.78	B	C
	ATOM	254	C	ALA	B	143	15.702	51.087	75.661	1.00	11.72	B	C
	ATOM	255	O	ALA	B	143	16.767	51.029	75.030	1.00	10.40	B	O
65	ATOM	256	N	LEU	B	144	15.512	51.906	76.697	1.00	12.73	B	N
	ATOM	257	CA	LEU	B	144	16.576	52.795	77.179	1.00	12.22	B	C
	ATOM	258	CB	LEU	B	144	16.027	53.764	78.230	1.00	12.36	B	C
	ATOM	259	CG	LEU	B	144	15.148	54.886	77.681	1.00	15.79	B	C
	ATOM	260	CD1	LEU	B	144	14.530	55.695	78.824	1.00	16.34	B	C

	ATOM	261	CD2	LEU	B	144	15.994	55.781	76.781	1.00	16.83	B	C
	ATOM	262	C	LEU	B	144	17.735	51.990	77.769	1.00	13.09	B	C
	ATOM	263	O	LEU	B	144	18.895	52.397	77.701	1.00	10.97	B	O
5	ATOM	264	N	CYS	B	145	17.406	50.840	78.348	1.00	15.11	B	N
	ATOM	265	CA	CYS	B	145	18.406	49.963	78.926	1.00	16.85	B	C
	ATOM	266	CB	CYS	B	145	17.738	48.835	79.698	1.00	22.34	B	C
	ATOM	267	SG	CYS	B	145	17.396	49.315	81.366	1.00	36.73	B	S
	ATOM	268	C	CYS	B	145	19.265	49.360	77.838	1.00	15.44	B	C
10	ATOM	269	O	CYS	B	145	20.483	49.208	78.008	1.00	13.07	B	O
	ATOM	270	N	ILE	B	146	18.619	48.991	76.735	1.00	13.81	B	N
	ATOM	271	CA	ILE	B	146	19.315	48.410	75.587	1.00	14.16	B	C
	ATOM	272	CB	ILE	B	146	18.304	47.972	74.498	1.00	14.31	B	C
	ATOM	273	CG2	ILE	B	146	18.983	47.867	73.138	1.00	14.84	B	C
	ATOM	274	CG1	ILE	B	146	17.689	46.628	74.883	1.00	11.65	B	C
15	ATOM	275	CD1	ILE	B	146	16.384	46.333	74.144	1.00	13.42	B	C
	ATOM	276	C	ILE	B	146	20.316	49.419	75.001	1.00	13.49	B	C
	ATOM	277	O	ILE	B	146	21.481	49.081	74.764	1.00	14.08	B	O
	ATOM	278	N	ARG	B	147	19.878	50.662	74.806	1.00	12.60	B	N
	ATOM	279	CA	ARG	B	147	20.769	51.671	74.249	1.00	12.32	B	C
20	ATOM	280	CB	ARG	B	147	20.020	52.980	73.960	1.00	6.46	B	C
	ATOM	281	CG	ARG	B	147	20.963	54.136	73.625	1.00	3.42	B	C
	ATOM	282	CD	ARG	B	147	20.288	55.257	72.834	1.00	8.04	B	C
	ATOM	283	NE	ARG	B	147	21.236	56.340	72.527	1.00	10.05	B	N
	ATOM	284	CZ	ARG	B	147	22.001	56.386	71.434	1.00	12.33	B	C
25	ATOM	285	NH1	ARG	B	147	21.932	55.408	70.529	1.00	7.88	B	N
	ATOM	286	NH2	ARG	B	147	22.853	57.392	71.258	1.00	8.96	B	N
	ATOM	287	C	ARG	B	147	21.939	51.956	75.181	1.00	13.60	B	C
	ATOM	288	O	ARG	B	147	23.087	52.035	74.735	1.00	15.62	B	O
	ATOM	289	N	GLU	B	148	21.651	52.137	76.470	1.00	13.61	B	N
30	ATOM	290	CA	GLU	B	148	22.702	52.410	77.451	1.00	12.17	B	C
	ATOM	291	CB	GLU	B	148	22.108	52.528	78.863	1.00	15.56	B	C
	ATOM	292	CG	GLU	B	148	23.174	52.748	79.961	1.00	16.31	B	C
	ATOM	293	CD	GLU	B	148	22.634	52.519	81.375	1.00	20.09	B	C
35	ATOM	294	OE1	GLU	B	148	22.775	53.426	82.225	1.00	17.71	B	O
	ATOM	295	OE2	GLU	B	148	22.068	51.434	81.635	1.00	20.79	B	O
	ATOM	296	C	GLU	B	148	23.746	51.290	77.424	1.00	11.58	B	C
	ATOM	297	O	GLU	B	148	24.946	51.545	77.487	1.00	12.91	B	O
	ATOM	298	N	LYS	B	149	23.279	50.050	77.338	1.00	11.33	B	N
	ATOM	299	CA	LYS	B	149	24.164	48.893	77.295	1.00	12.50	B	C
40	ATOM	300	CB	LYS	B	149	23.333	47.611	77.236	1.00	9.43	B	C
	ATOM	301	CG	LYS	B	149	24.177	46.335	77.197	1.00	11.14	B	C
	ATOM	302	CD	LYS	B	149	23.322	45.077	77.226	1.00	10.75	B	C
	ATOM	303	CE	LYS	B	149	22.408	44.988	76.012	1.00	12.85	B	C
	ATOM	304	NZ	LYS	B	149	21.728	43.660	75.944	1.00	15.82	B	N
45	ATOM	305	C	LYS	B	149	25.130	48.931	76.096	1.00	14.20	B	C
	ATOM	306	O	LYS	B	149	26.350	48.788	76.248	1.00	14.36	B	O
	ATOM	307	N	TYR	B	150	24.588	49.133	74.900	1.00	12.65	B	N
	ATOM	308	CA	TYR	B	150	25.433	49.167	73.717	1.00	11.41	B	C
	ATOM	309	CB	TYR	B	150	24.547	49.039	72.470	1.00	15.63	B	C
50	ATOM	310	CG	TYR	B	150	23.986	47.637	72.340	1.00	14.38	B	C
	ATOM	311	CD1	TYR	B	150	24.816	46.569	72.026	1.00	16.00	B	C
	ATOM	312	CE1	TYR	B	150	24.332	45.254	71.990	1.00	14.45	B	C
	ATOM	313	CD2	TYR	B	150	22.653	47.365	72.606	1.00	13.19	B	C
	ATOM	314	CE2	TYR	B	150	22.162	46.055	72.568	1.00	13.58	B	C
55	ATOM	315	CZ	TYR	B	150	23.013	45.009	72.264	1.00	13.76	B	C
	ATOM	316	OH	TYR	B	150	22.557	43.711	72.273	1.00	18.24	B	O
	ATOM	317	C	TYR	B	150	26.328	50.395	73.665	1.00	10.37	B	C
	ATOM	318	O	TYR	B	150	27.458	50.339	73.162	1.00	9.80	B	O
	ATOM	319	N	MET	B	151	25.851	51.514	74.196	1.00	9.87	B	N
60	ATOM	320	CA	MET	B	151	26.688	52.714	74.207	1.00	13.40	B	C
	ATOM	321	CB	MET	B	151	25.891	53.937	74.678	1.00	11.18	B	C
	ATOM	322	CG	MET	B	151	24.879	54.478	73.661	1.00	15.89	B	C
	ATOM	323	SD	MET	B	151	25.578	54.902	72.020	1.00	11.43	B	S
	ATOM	324	CE	MET	B	151	25.206	53.377	71.112	1.00	8.22	B	C
65	ATOM	325	C	MET	B	151	27.901	52.510	75.132	1.00	16.28	B	C
	ATOM	326	O	MET	B	151	29.054	52.646	74.707	1.00	18.54	B	O
	ATOM	327	N	LEU	B	152	27.638	52.176	76.394	1.00	16.57	B	N
	ATOM	328	CA	LEU	B	152	28.705	51.969	77.383	1.00	16.88	B	C

	ATOM	329	CB	LEU	B	152	28.106	51.560	78.729	1.00	19.57	B	C
	ATOM	330	CG	LEU	B	152	27.163	52.565	79.406	1.00	22.95	B	C
	ATOM	331	CD1	LEU	B	152	27.031	52.213	80.882	1.00	23.45	B	C
	ATOM	332	CD2	LEU	B	152	27.689	53.981	79.230	1.00	21.93	B	C
5	ATOM	333	C	LEU	B	152	29.721	50.923	76.957	1.00	14.98	B	C
	ATOM	334	O	LEU	B	152	30.929	51.133	77.092	1.00	14.87	B	O
	ATOM	335	N	LYS	B	153	29.236	49.804	76.433	1.00	14.05	B	N
	ATOM	336	CA	LYS	B	153	30.124	48.736	76.000	1.00	17.36	B	C
	ATOM	337	CB	LYS	B	153	29.301	47.461	75.799	1.00	19.99	B	C
10	ATOM	338	CG	LYS	B	153	29.404	46.828	74.449	1.00	25.27	B	C
	ATOM	339	CD	LYS	B	153	28.136	46.043	74.132	1.00	27.22	B	C
	ATOM	340	CE	LYS	B	153	27.687	45.212	75.318	1.00	30.48	B	C
	ATOM	341	NZ	LYS	B	153	26.753	44.117	74.903	1.00	38.61	B	N
	ATOM	342	C	LYS	B	153	30.979	49.064	74.760	1.00	18.19	B	C
15	ATOM	343	O	LYS	B	153	31.941	48.349	74.454	1.00	18.79	B	O
	ATOM	344	N	SER	B	154	30.656	50.156	74.066	1.00	16.61	B	N
	ATOM	345	CA	SER	B	154	31.426	50.552	72.887	1.00	16.42	B	C
	ATOM	346	CB	SER	B	154	30.525	50.633	71.653	1.00	17.09	B	C
	ATOM	347	OG	SER	B	154	29.506	51.606	71.814	1.00	19.15	B	O
20	ATOM	348	C	SER	B	154	32.123	51.883	73.112	1.00	16.44	B	C
	ATOM	349	O	SER	B	154	32.708	52.460	72.200	1.00	17.66	B	O
	ATOM	350	N	PHE	B	155	32.053	52.369	74.342	1.00	15.95	B	N
	ATOM	351	CA	PHE	B	155	32.690	53.622	74.719	1.00	15.02	B	C
	ATOM	352	CB	PHE	B	155	34.189	53.543	74.465	1.00	20.54	B	C
25	ATOM	353	CG	PHE	B	155	34.878	52.516	75.311	1.00	21.76	B	C
	ATOM	354	CD1	PHE	B	155	35.483	52.883	76.509	1.00	25.06	B	C
	ATOM	355	CD2	PHE	B	155	34.892	51.179	74.928	1.00	20.44	B	C
	ATOM	356	CE1	PHE	B	155	36.097	51.923	77.322	1.00	27.45	B	C
	ATOM	357	CE2	PHE	B	155	35.497	50.209	75.728	1.00	21.79	B	C
30	ATOM	358	CZ	PHE	B	155	36.101	50.580	76.926	1.00	24.41	B	C
	ATOM	359	C	PHE	B	155	32.109	54.839	74.032	1.00	14.89	B	C
	ATOM	360	O	PHE	B	155	32.823	55.816	73.731	1.00	13.15	B	O
	ATOM	361	N	GLN	B	156	30.804	54.779	73.799	1.00	10.42	B	N
	ATOM	362	CA	GLN	B	156	30.099	55.885	73.182	1.00	11.63	B	C
35	ATOM	363	CB	GLN	B	156	29.240	55.371	72.028	1.00	11.35	B	C
	ATOM	364	CG	GLN	B	156	30.086	54.815	70.893	1.00	8.89	B	C
	ATOM	365	CD	GLN	B	156	29.294	54.634	69.644	1.00	12.69	B	C
	ATOM	366	OE1	GLN	B	156	28.643	53.597	69.449	1.00	14.75	B	O
	ATOM	367	NE2	GLN	B	156	29.325	55.642	68.780	1.00	8.92	B	N
40	ATOM	368	C	GLN	B	156	29.264	56.523	74.289	1.00	13.40	B	C
	ATOM	369	O	GLN	B	156	29.111	55.929	75.354	1.00	13.94	B	O
	ATOM	370	N	ARG	B	157	28.717	57.713	74.047	1.00	13.17	B	N
	ATOM	371	CA	ARG	B	157	27.979	58.427	75.085	1.00	12.76	B	C
	ATOM	372	CB	ARG	B	157	28.174	59.926	74.883	1.00	10.08	B	C
45	ATOM	373	CG	ARG	B	157	29.630	60.286	74.670	1.00	11.02	B	C
	ATOM	374	CD	ARG	B	157	29.801	61.718	74.197	1.00	16.24	B	C
	ATOM	375	NE	ARG	B	157	29.331	61.904	72.823	1.00	16.76	B	N
	ATOM	376	CZ	ARG	B	157	29.449	63.038	72.131	1.00	16.64	B	C
	ATOM	377	NH1	ARG	B	157	28.990	63.118	70.889	1.00	17.78	B	N
50	ATOM	378	NH2	ARG	B	157	30.031	64.097	72.668	1.00	14.56	B	N
	ATOM	379	C	ARG	B	157	26.508	58.140	75.307	1.00	14.19	B	C
	ATOM	380	O	ARG	B	157	25.759	57.872	74.372	1.00	18.27	B	O
	ATOM	381	N	PHE	B	158	26.118	58.161	76.581	1.00	13.49	B	N
	ATOM	382	CA	PHE	B	158	24.732	57.986	77.009	1.00	14.17	B	C
55	ATOM	383	CB	PHE	B	158	24.444	56.548	77.444	1.00	12.16	B	C
	ATOM	384	CG	PHE	B	158	22.980	56.283	77.688	1.00	14.59	B	C
	ATOM	385	CD1	PHE	B	158	22.471	56.241	78.986	1.00	9.44	B	C
	ATOM	386	CD2	PHE	B	158	22.104	56.124	76.621	1.00	11.38	B	C
	ATOM	387	CE1	PHE	B	158	21.118	56.049	79.212	1.00	8.10	B	C
60	ATOM	388	CE2	PHE	B	158	20.739	55.930	76.843	1.00	13.80	B	C
	ATOM	389	CZ	PHE	B	158	20.248	55.892	78.141	1.00	12.95	B	C
	ATOM	390	C	PHE	B	158	24.609	58.956	78.192	1.00	16.49	B	C
	ATOM	391	O	PHE	B	158	25.438	58.924	79.107	1.00	18.20	B	O
	ATOM	392	N	PRO	B	159	23.580	59.831	78.192	1.00	16.20	B	N
65	ATOM	393	CD	PRO	B	159	22.500	59.918	77.199	1.00	14.25	B	C
	ATOM	394	CA	PRO	B	159	23.400	60.808	79.276	1.00	15.28	B	C
	ATOM	395	CB	PRO	B	159	22.257	61.691	78.779	1.00	12.28	B	C
	ATOM	396	CG	PRO	B	159	21.482	60.811	77.882	1.00	17.09	B	C

	ATOM	397	C	PRO	B	159	23.132	60.233	80.659	1.00	14.74	B	C
	ATOM	398	O	PRO	B	159	22.497	59.188	80.801	1.00	17.40	B	O
	ATOM	399	N	LYS	B	160	23.618	60.938	81.675	1.00	15.88	B	N
5	ATOM	400	CA	LYS	B	160	23.459	60.531	83.074	1.00	18.09	B	C
	ATOM	401	CB	LYS	B	160	24.307	61.419	83.972	1.00	18.78	B	C
	ATOM	402	CG	LYS	B	160	25.789	61.196	83.802	1.00	28.63	B	C
	ATOM	403	CD	LYS	B	160	26.614	62.230	84.576	1.00	35.06	B	C
	ATOM	404	CE	LYS	B	160	26.280	63.649	84.140	1.00	38.88	B	C
10	ATOM	405	NZ	LYS	B	160	27.152	64.099	83.012	1.00	39.06	B	N
	ATOM	406	C	LYS	B	160	22.040	60.532	83.622	1.00	15.93	B	C
	ATOM	407	O	LYS	B	160	21.623	59.557	84.244	1.00	18.32	B	O
	ATOM	408	N	THR	B	161	21.283	61.602	83.389	1.00	17.43	B	N
	ATOM	409	CA	THR	B	161	19.955	61.631	83.973	1.00	18.90	B	C
15	ATOM	410	CB	THR	B	161	19.216	62.972	83.732	1.00	19.98	B	C
	ATOM	411	OG1	THR	B	161	18.207	62.810	82.738	1.00	31.26	B	O
	ATOM	412	CG2	THR	B	161	20.184	64.050	83.356	1.00	14.69	B	C
	ATOM	413	C	THR	B	161	19.104	60.433	83.624	1.00	18.52	B	C
	ATOM	414	O	THR	B	161	18.451	59.886	84.514	1.00	20.87	B	O
20	ATOM	415	N	PRO	B	162	19.081	59.998	82.344	1.00	18.69	B	N
	ATOM	416	CD	PRO	B	162	19.699	60.519	81.109	1.00	16.83	B	C
	ATOM	417	CA	PRO	B	162	18.243	58.812	82.094	1.00	16.36	B	C
	ATOM	418	CB	PRO	B	162	18.352	58.584	80.575	1.00	16.56	B	C
	ATOM	419	CG	PRO	B	162	18.914	59.855	80.027	1.00	17.78	B	C
25	ATOM	420	C	PRO	B	162	18.780	57.602	82.883	1.00	15.33	B	C
	ATOM	421	O	PRO	B	162	18.014	56.774	83.363	1.00	14.71	B	O
	ATOM	422	N	SER	B	163	20.104	57.505	82.999	1.00	15.87	B	N
	ATOM	423	CA	SER	B	163	20.736	56.403	83.717	1.00	17.57	B	C
	ATOM	424	CB	SER	B	163	22.251	56.515	83.616	1.00	16.81	B	C
30	ATOM	425	OG	SER	B	163	22.702	56.021	82.362	1.00	19.85	B	O
	ATOM	426	C	SER	B	163	20.310	56.404	85.177	1.00	18.31	B	C
	ATOM	427	O	SER	B	163	19.950	55.368	85.734	1.00	20.60	B	O
	ATOM	428	N	LYS	B	164	20.343	57.575	85.799	1.00	19.21	B	N
	ATOM	429	CA	LYS	B	164	19.925	57.691	87.191	1.00	18.65	B	C
35	ATOM	430	CB	LYS	B	164	19.941	59.146	87.618	1.00	16.48	B	C
	ATOM	431	CG	LYS	B	164	21.327	59.672	87.795	1.00	17.66	B	C
	ATOM	432	CD	LYS	B	164	21.306	61.163	87.978	1.00	21.03	B	C
	ATOM	433	CE	LYS	B	164	22.713	61.671	88.174	1.00	26.06	B	C
	ATOM	434	NZ	LYS	B	164	22.710	63.121	88.492	1.00	31.81	B	N
40	ATOM	435	C	LYS	B	164	18.523	57.121	87.360	1.00	20.08	B	C
	ATOM	436	O	LYS	B	164	18.261	56.391	88.314	1.00	23.54	B	O
	ATOM	437	N	TYR	B	165	17.616	57.443	86.441	1.00	17.33	B	N
	ATOM	438	CA	TYR	B	165	16.264	56.910	86.537	1.00	17.68	B	C
	ATOM	439	CB	TYR	B	165	15.339	57.581	85.509	1.00	16.01	B	C
45	ATOM	440	CG	TYR	B	165	14.710	58.853	86.010	1.00	14.81	B	C
	ATOM	441	CD1	TYR	B	165	13.596	58.819	86.837	1.00	16.96	B	C
	ATOM	442	CE1	TYR	B	165	13.024	59.990	87.327	1.00	15.54	B	C
	ATOM	443	CD2	TYR	B	165	15.243	60.090	85.680	1.00	16.54	B	C
	ATOM	444	CE2	TYR	B	165	14.687	61.261	86.161	1.00	17.83	B	C
50	ATOM	445	CZ	TYR	B	165	13.580	61.201	86.987	1.00	17.05	B	C
	ATOM	446	OH	TYR	B	165	13.049	62.362	87.491	1.00	24.58	B	O
	ATOM	447	C	TYR	B	165	16.237	55.398	86.330	1.00	17.39	B	C
	ATOM	448	O	TYR	B	165	15.413	54.712	86.921	1.00	20.26	B	O
	ATOM	449	N	LEU	B	166	17.123	54.878	85.482	1.00	20.54	B	N
55	ATOM	450	CA	LEU	B	166	17.155	53.438	85.209	1.00	19.89	B	C
	ATOM	451	CB	LEU	B	166	18.129	53.127	84.054	1.00	19.48	B	C
	ATOM	452	CG	LEU	B	166	17.759	53.624	82.637	1.00	18.59	B	C
	ATOM	453	CD1	LEU	B	166	18.890	53.323	81.679	1.00	18.50	B	C
	ATOM	454	CD2	LEU	B	166	16.477	52.951	82.148	1.00	15.66	B	C
60	ATOM	455	C	LEU	B	166	17.592	52.719	86.481	1.00	20.23	B	C
	ATOM	456	O	LEU	B	166	17.013	51.706	86.869	1.00	19.60	B	O
	ATOM	457	N	ARG	B	167	18.615	53.263	87.131	1.00	20.13	B	N
	ATOM	458	CA	ARG	B	167	19.129	52.689	88.368	1.00	21.08	B	C
	ATOM	459	CB	ARG	B	167	20.335	53.492	88.842	1.00	16.96	B	C
	ATOM	460	CG	ARG	B	167	21.587	53.368	87.970	1.00	15.36	B	C
65	ATOM	461	CD	ARG	B	167	22.003	51.910	87.672	1.00	18.46	B	C
	ATOM	462	NE	ARG	B	167	21.287	51.305	86.533	1.00	22.29	B	N
	ATOM	463	CZ	ARG	B	167	21.490	51.607	85.241	1.00	18.93	B	C
	ATOM	464	NH1	ARG	B	167	22.392	52.515	84.891	1.00	12.90	B	N

	ATOM	465	NH2	ARG	B	167	20.767	51.019	84.293	1.00	10.94	B	N
	ATOM	466	C	ARG	B	167	18.016	52.673	89.434	1.00	21.96	B	C
	ATOM	467	O	ARG	B	167	17.782	51.640	90.069	1.00	22.13	B	O
	ATOM	468	N	SER	B	168	17.316	53.801	89.596	1.00	22.75	B	N
5	ATOM	469	CA	SER	B	168	16.202	53.922	90.554	1.00	23.84	B	C
	ATOM	470	CB	SER	B	168	15.538	55.282	90.454	1.00	23.84	B	C
	ATOM	471	OG	SER	B	168	16.437	56.288	90.835	1.00	34.52	B	O
	ATOM	472	C	SER	B	168	15.129	52.899	90.282	1.00	24.46	B	C
10	ATOM	473	O	SER	B	168	14.625	52.243	91.183	1.00	24.32	B	O
	ATOM	474	N	ILE	B	169	14.746	52.794	89.024	1.00	24.88	B	N
	ATOM	475	CA	ILE	B	169	13.727	51.841	88.663	1.00	25.41	B	C
	ATOM	476	CB	ILE	B	169	13.430	51.932	87.156	1.00	26.59	B	C
	ATOM	477	CG2	ILE	B	169	12.776	50.648	86.664	1.00	23.71	B	C
	ATOM	478	CG1	ILE	B	169	12.549	53.155	86.886	1.00	23.62	B	C
15	ATOM	479	CD1	ILE	B	169	12.423	53.497	85.423	1.00	26.71	B	C
	ATOM	480	C	ILE	B	169	14.192	50.433	89.033	1.00	27.08	B	C
	ATOM	481	O	ILE	B	169	13.391	49.594	89.437	1.00	26.69	B	O
	ATOM	482	N	GLU	B	170	15.492	50.183	88.912	1.00	28.65	B	N
20	ATOM	483	CA	GLU	B	170	16.045	48.867	89.216	1.00	32.66	B	C
	ATOM	484	CB	GLU	B	170	17.417	48.714	88.579	1.00	30.76	B	C
	ATOM	485	CG	GLU	B	170	17.361	48.460	87.094	1.00	35.21	B	C
	ATOM	486	CD	GLU	B	170	18.610	48.944	86.385	1.00	38.50	B	C
	ATOM	487	OE1	GLU	B	170	18.543	49.196	85.153	1.00	38.34	B	O
	ATOM	488	OE2	GLU	B	170	19.659	49.071	87.066	1.00	37.91	B	O
25	ATOM	489	C	GLU	B	170	16.161	48.612	90.712	1.00	36.66	B	C
	ATOM	490	O	GLU	B	170	16.185	47.469	91.156	1.00	37.57	B	O
	ATOM	491	N	GLY	B	171	16.242	49.684	91.488	1.00	39.10	B	N
	ATOM	492	CA	GLY	B	171	16.344	49.537	92.926	1.00	40.34	B	C
	ATOM	493	C	GLY	B	171	17.776	49.632	93.386	1.00	41.28	B	C
30	ATOM	494	O	GLY	B	171	18.102	49.254	94.508	1.00	44.13	B	O
	ATOM	495	N	THR	B	172	18.643	50.135	92.522	1.00	41.19	B	N
	ATOM	496	CA	THR	B	172	20.036	50.272	92.890	1.00	43.50	B	C
	ATOM	497	CB	THR	B	172	20.943	49.506	91.894	1.00	43.48	B	C
	ATOM	498	OG1	THR	B	172	21.247	50.332	90.768	1.00	47.24	B	O
35	ATOM	499	CG2	THR	B	172	20.236	48.265	91.392	1.00	43.23	B	C
	ATOM	500	C	THR	B	172	20.407	51.752	92.957	1.00	45.09	B	C
	ATOM	501	O	THR	B	172	19.652	52.616	92.499	1.00	43.93	B	O
	ATOM	502	N	ALA	B	173	21.559	52.043	93.555	1.00	48.58	B	N
40	ATOM	503	CA	ALA	B	173	22.034	53.421	93.695	1.00	49.46	B	C
	ATOM	504	CB	ALA	B	173	22.830	53.573	94.984	1.00	50.75	B	C
	ATOM	505	C	ALA	B	173	22.894	53.810	92.503	1.00	49.54	B	C
	ATOM	506	O	ALA	B	173	23.692	53.009	92.004	1.00	50.79	B	O
	ATOM	507	N	TRP	B	174	22.739	55.047	92.050	1.00	48.93	B	N
45	ATOM	508	CA	TRP	B	174	23.481	55.513	90.894	1.00	48.87	B	C
	ATOM	509	CB	TRP	B	174	22.813	56.755	90.309	1.00	46.23	B	C
	ATOM	510	CG	TRP	B	174	23.482	57.201	89.061	1.00	46.65	B	C
	ATOM	511	CD2	TRP	B	174	24.353	58.326	88.921	1.00	46.37	B	C
	ATOM	512	CE2	TRP	B	174	24.808	58.338	87.578	1.00	44.66	B	C
	ATOM	513	CE3	TRP	B	174	24.798	59.326	89.801	1.00	45.63	B	C
50	ATOM	514	CD1	TRP	B	174	23.436	56.590	87.832	1.00	44.36	B	C
	ATOM	515	NE1	TRP	B	174	24.233	57.269	86.939	1.00	43.70	B	N
	ATOM	516	CZ2	TRP	B	174	25.686	59.315	87.093	1.00	46.58	B	C
	ATOM	517	CZ3	TRP	B	174	25.674	60.299	89.320	1.00	47.60	B	C
55	ATOM	518	CH2	TRP	B	174	26.109	60.285	87.974	1.00	47.74	B	C
	ATOM	519	C	TRP	B	174	24.964	55.784	91.123	1.00	49.58	B	C
	ATOM	520	O	TRP	B	174	25.351	56.550	92.003	1.00	50.21	B	O
	ATOM	521	N	LYS	B	175	25.778	55.153	90.285	1.00	52.40	B	N
	ATOM	522	CA	LYS	B	175	27.234	55.260	90.323	1.00	52.82	B	C
60	ATOM	523	CB	LYS	B	175	27.850	54.107	89.528	1.00	54.22	B	C
	ATOM	524	CG	LYS	B	175	26.853	53.349	88.658	1.00	53.61	B	C
	ATOM	525	CD	LYS	B	175	27.311	51.907	88.456	1.00	58.71	B	C
	ATOM	526	CE	LYS	B	175	27.490	51.164	89.796	1.00	60.87	B	C
	ATOM	527	NZ	LYS	B	175	28.898	51.223	90.317	1.00	58.78	B	N
65	ATOM	528	C	LYS	B	175	27.774	56.569	89.764	1.00	52.30	B	C
	ATOM	529	O	LYS	B	175	27.357	57.655	90.156	1.00	55.47	B	O
	ATOM	530	N	ALA	B	176	28.722	56.437	88.845	1.00	51.83	B	N
	ATOM	531	CA	ALA	B	176	29.365	57.567	88.199	1.00	52.86	B	C
	ATOM	532	CB	ALA	B	176	29.857	58.563	89.245	1.00	49.34	B	C

	ATOM	533	C	ALA	B	176	30.543	57.021	87.390	1.00	54.22	B	C
	ATOM	534	O	ALA	B	176	31.345	57.786	86.849	1.00	56.23	B	O
	ATOM	535	N	ASN	B	177	30.637	55.693	87.309	1.00	55.37	B	N
5	ATOM	536	CA	ASN	B	177	31.720	55.025	86.572	1.00	56.17	B	C
	ATOM	537	CB	ASN	B	177	31.326	53.581	86.242	1.00	56.10	B	C
	ATOM	538	CG	ASN	B	177	30.117	53.489	85.316	1.00	58.22	B	C
	ATOM	539	OD1	ASN	B	177	29.014	53.921	85.667	1.00	61.16	B	O
	ATOM	540	ND2	ASN	B	177	30.320	52.915	84.129	1.00	56.36	B	N
10	ATOM	541	C	ASN	B	177	32.151	55.743	85.285	1.00	54.69	B	C
	ATOM	542	O	ASN	B	177	31.389	55.848	84.317	1.00	53.93	B	O
	ATOM	543	N	GLU	B	178	33.387	56.229	85.284	1.00	52.70	B	N
	ATOM	544	CA	GLU	B	178	33.919	56.936	84.134	1.00	51.38	B	C
	ATOM	545	CB	GLU	B	178	34.747	58.132	84.605	1.00	52.69	B	C
	ATOM	546	CG	GLU	B	178	33.907	59.312	85.093	1.00	56.95	B	C
15	ATOM	547	CD	GLU	B	178	32.786	59.698	84.120	1.00	60.87	B	C
	ATOM	548	OE1	GLU	B	178	32.077	58.789	83.630	1.00	60.80	B	O
	ATOM	549	OE2	GLU	B	178	32.609	60.911	83.849	1.00	61.36	B	O
	ATOM	550	C	GLU	B	178	34.764	56.033	83.242	1.00	50.44	B	C
20	ATOM	551	O	GLU	B	178	35.383	56.498	82.273	1.00	51.53	B	O
	ATOM	552	N	SER	B	179	34.775	54.742	83.560	1.00	46.90	B	N
	ATOM	553	CA	SER	B	179	35.553	53.774	82.796	1.00	43.96	B	C
	ATOM	554	CB	SER	B	179	35.508	52.409	83.482	1.00	43.41	B	C
	ATOM	555	OG	SER	B	179	34.292	52.231	84.184	1.00	43.78	B	O
25	ATOM	556	C	SER	B	179	35.104	53.615	81.344	1.00	42.68	B	C
	ATOM	557	O	SER	B	179	35.944	53.463	80.449	1.00	43.64	B	O
	ATOM	558	N	SER	B	180	33.791	53.664	81.110	1.00	39.55	B	N
	ATOM	559	CA	SER	B	180	33.238	53.484	79.763	1.00	38.56	B	C
	ATOM	560	CB	SER	B	180	31.841	52.880	79.852	1.00	38.03	B	C
30	ATOM	561	OG	SER	B	180	31.794	51.877	80.842	1.00	40.73	B	O
	ATOM	562	C	SER	B	180	33.160	54.752	78.928	1.00	37.54	B	C
	ATOM	563	O	SER	B	180	32.543	54.773	77.862	1.00	37.36	B	O
	ATOM	564	N	TYR	B	181	33.787	55.806	79.419	1.00	35.83	B	N
	ATOM	565	CA	TYR	B	181	33.783	57.091	78.748	1.00	34.75	B	C
35	ATOM	566	CB	TYR	B	181	34.344	58.133	79.697	1.00	39.95	B	C
	ATOM	567	CG	TYR	B	181	33.370	59.200	80.095	1.00	46.42	B	C
	ATOM	568	CD1	TYR	B	181	33.590	60.535	79.739	1.00	49.59	B	C
	ATOM	569	CE1	TYR	B	181	32.713	61.542	80.138	1.00	54.50	B	C
	ATOM	570	CD2	TYR	B	181	32.247	58.889	80.856	1.00	49.17	B	C
40	ATOM	571	CE2	TYR	B	181	31.354	59.888	81.265	1.00	54.38	B	C
	ATOM	572	CZ	TYR	B	181	31.591	61.215	80.906	1.00	56.27	B	C
	ATOM	573	OH	TYR	B	181	30.716	62.210	81.319	1.00	57.87	B	O
	ATOM	574	C	TYR	B	181	34.620	57.092	77.484	1.00	31.88	B	C
	ATOM	575	O	TYR	B	181	35.668	56.472	77.444	1.00	30.73	B	O
45	ATOM	576	N	PRO	B	182	34.152	57.769	76.420	1.00	31.04	B	N
	ATOM	577	CD	PRO	B	182	32.873	58.481	76.275	1.00	29.38	B	C
	ATOM	578	CA	PRO	B	182	34.945	57.804	75.185	1.00	30.71	B	C
	ATOM	579	CB	PRO	B	182	34.059	58.573	74.203	1.00	29.41	B	C
	ATOM	580	CG	PRO	B	182	33.078	59.302	75.042	1.00	30.01	B	C
50	ATOM	581	C	PRO	B	182	36.252	58.544	75.485	1.00	30.98	B	C
	ATOM	582	O	PRO	B	182	36.285	59.386	76.380	1.00	33.34	B	O
	ATOM	583	N	VAL	B	183	37.327	58.233	74.765	1.00	28.87	B	N
	ATOM	584	CA	VAL	B	183	38.606	58.904	75.004	1.00	26.13	B	C
	ATOM	585	CB	VAL	B	183	39.730	57.885	75.275	1.00	28.13	B	C
55	ATOM	586	CG1	VAL	B	183	41.039	58.611	75.531	1.00	28.69	B	C
	ATOM	587	CG2	VAL	B	183	39.369	57.003	76.458	1.00	25.64	B	C
	ATOM	588	C	VAL	B	183	39.011	59.752	73.809	1.00	26.08	B	C
	ATOM	589	O	VAL	B	183	39.460	59.215	72.800	1.00	26.15	B	O
	ATOM	590	N	PHE	B	184	38.839	61.069	73.915	1.00	25.86	B	N
60	ATOM	591	CA	PHE	B	184	39.191	61.981	72.830	1.00	30.85	B	C
	ATOM	592	CB	PHE	B	184	38.337	63.245	72.886	1.00	35.65	B	C
	ATOM	593	CG	PHE	B	184	36.894	63.014	72.540	1.00	42.83	B	C
	ATOM	594	CD1	PHE	B	184	36.399	63.362	71.274	1.00	45.52	B	C
	ATOM	595	CD2	PHE	B	184	36.030	62.427	73.471	1.00	41.01	B	C
65	ATOM	596	CE1	PHE	B	184	35.054	63.125	70.942	1.00	48.84	B	C
	ATOM	597	CE2	PHE	B	184	34.689	62.185	73.155	1.00	44.48	B	C
	ATOM	598	CZ	PHE	B	184	34.196	62.534	71.887	1.00	46.83	B	C
	ATOM	599	C	PHE	B	184	40.641	62.361	72.997	1.00	31.22	B	C
	ATOM	600	O	PHE	B	184	41.093	62.557	74.121	1.00	30.48	B	O

	ATOM	601	N	THR	B	185	41.390	62.474	71.907	1.00	29.89	B	N
	ATOM	602	CA	THR	B	185	42.783	62.825	72.107	1.00	30.70	B	C
	ATOM	603	CB	THR	B	185	43.645	62.665	70.793	1.00	29.58	B	C
	ATOM	604	OG1	THR	B	185	44.124	63.935	70.349	1.00	31.46	B	O
5	ATOM	605	CG2	THR	B	185	42.863	61.987	69.713	1.00	24.40	B	C
	ATOM	606	C	THR	B	185	42.853	64.235	72.704	1.00	31.37	B	C
	ATOM	607	O	THR	B	185	42.053	65.116	72.364	1.00	29.64	B	O
	ATOM	608	N	PRO	B	186	43.776	64.441	73.663	1.00	31.30	B	N
10	ATOM	609	CD	PRO	B	186	44.691	63.412	74.183	1.00	28.41	B	C
	ATOM	610	CA	PRO	B	186	43.964	65.732	74.336	1.00	29.78	B	C
	ATOM	611	CB	PRO	B	186	45.072	65.455	75.349	1.00	28.15	B	C
	ATOM	612	CG	PRO	B	186	45.729	64.213	74.882	1.00	30.38	B	C
	ATOM	613	C	PRO	B	186	44.328	66.869	73.399	1.00	29.34	B	C
	ATOM	614	O	PRO	B	186	45.019	66.672	72.404	1.00	33.14	B	O
15	ATOM	615	N	ALA	B	187	43.850	68.062	73.718	1.00	27.92	B	N
	ATOM	616	CA	ALA	B	187	44.144	69.230	72.907	1.00	30.56	B	C
	ATOM	617	CB	ALA	B	187	43.521	70.464	73.541	1.00	24.06	B	C
	ATOM	618	C	ALA	B	187	45.655	69.396	72.838	1.00	33.70	B	C
	ATOM	619	O	ALA	B	187	46.337	69.203	73.837	1.00	36.09	B	O
20	ATOM	620	N	LEU	B	188	46.209	69.729	71.678	1.00	37.85	B	N
	ATOM	621	CA	LEU	B	188	47.648	69.918	71.676	1.00	39.72	B	C
	ATOM	622	CB	LEU	B	188	48.272	69.734	70.284	1.00	39.87	B	C
	ATOM	623	CG	LEU	B	188	47.697	70.303	68.998	1.00	41.73	B	C
	ATOM	624	CD1	LEU	B	188	48.680	71.291	68.404	1.00	39.58	B	C
25	ATOM	625	CD2	LEU	B	188	47.438	69.157	68.023	1.00	42.51	B	C
	ATOM	626	C	LEU	B	188	47.905	71.314	72.216	1.00	40.05	B	C
	ATOM	627	O	LEU	B	188	47.079	72.215	72.052	1.00	37.28	B	O
	ATOM	628	N	LYS	B	189	49.036	71.466	72.899	1.00	42.57	B	N
	ATOM	629	CA	LYS	B	189	49.430	72.737	73.490	1.00	46.11	B	C
30	ATOM	630	CB	LYS	B	189	50.711	72.555	74.275	1.00	44.21	B	C
	ATOM	631	CG	LYS	B	189	50.731	71.262	75.061	1.00	45.87	B	C
	ATOM	632	CD	LYS	B	189	50.314	71.503	76.503	1.00	50.48	B	C
	ATOM	633	CE	LYS	B	189	49.112	70.657	76.889	1.00	50.78	B	C
	ATOM	634	NZ	LYS	B	189	49.264	70.100	78.265	1.00	51.47	B	N
35	ATOM	635	C	LYS	B	189	49.633	73.831	72.459	1.00	50.56	B	C
	ATOM	636	O	LYS	B	189	49.748	73.557	71.260	1.00	51.05	B	O
	ATOM	637	N	LYS	B	190	49.671	75.075	72.936	1.00	54.45	B	N
	ATOM	638	CA	LYS	B	190	49.862	76.228	72.059	1.00	56.98	B	C
	ATOM	639	CB	LYS	B	190	50.020	77.512	72.894	1.00	58.19	B	C
40	ATOM	640	CG	LYS	B	190	49.941	78.823	72.101	1.00	58.21	B	C
	ATOM	641	CD	LYS	B	190	51.151	79.721	72.387	1.00	59.83	B	C
	ATOM	642	CE	LYS	B	190	51.328	80.001	73.882	1.00	58.63	B	C
	ATOM	643	NZ	LYS	B	190	52.744	79.860	74.308	1.00	59.05	B	N
	ATOM	644	C	LYS	B	190	51.124	75.954	71.246	1.00	56.71	B	C
45	ATOM	645	O	LYS	B	190	52.213	75.760	71.815	1.00	54.34	B	O
	ATOM	646	N	GLY	B	191	50.969	75.913	69.922	1.00	56.83	B	N
	ATOM	647	CA	GLY	B	191	52.109	75.643	69.063	1.00	56.16	B	C
	ATOM	648	C	GLY	B	191	52.851	74.380	69.490	1.00	54.79	B	C
	ATOM	649	O	GLY	B	191	53.880	74.429	70.171	1.00	51.87	B	O
50	ATOM	650	N	GLU	B	192	52.299	73.234	69.107	1.00	53.02	B	N
	ATOM	651	CA	GLU	B	192	52.903	71.937	69.410	1.00	47.83	B	C
	ATOM	652	CB	GLU	B	192	52.150	71.230	70.534	1.00	46.17	B	C
	ATOM	653	CG	GLU	B	192	52.726	69.873	70.898	1.00	42.51	B	C
	ATOM	654	CD	GLU	B	192	51.729	68.998	71.667	1.00	44.74	B	C
55	ATOM	655	OE1	GLU	B	192	52.004	67.792	71.849	1.00	42.29	B	O
	ATOM	656	OE2	GLU	B	192	50.667	69.508	72.092	1.00	44.57	B	O
	ATOM	657	C	GLU	B	192	52.755	71.158	68.120	1.00	43.97	B	C
	ATOM	658	O	GLU	B	192	51.754	71.317	67.416	1.00	47.24	B	O
	ATOM	659	N	ASP	B	193	53.740	70.328	67.800	1.00	39.73	B	N
60	ATOM	660	CA	ASP	B	193	53.681	69.575	66.553	1.00	36.49	B	C
	ATOM	661	CB	ASP	B	193	54.972	68.808	66.318	1.00	36.15	B	C
	ATOM	662	CG	ASP	B	193	54.966	68.074	64.994	1.00	39.51	B	C
	ATOM	663	OD1	ASP	B	193	55.158	66.849	65.013	1.00	40.76	B	O
	ATOM	664	OD2	ASP	B	193	54.760	68.712	63.935	1.00	43.43	B	O
65	ATOM	665	C	ASP	B	193	52.504	68.619	66.528	1.00	32.19	B	C
	ATOM	666	O	ASP	B	193	52.448	67.664	67.310	1.00	29.08	B	O
	ATOM	667	N	PRO	B	194	51.552	68.856	65.611	1.00	28.04	B	N
	ATOM	668	CD	PRO	B	194	51.523	69.916	64.588	1.00	27.97	B	C

	ATOM	669	CA	PRO	B	194	50.387	67.976	65.539	1.00	25.56	B	C
	ATOM	670	CB	PRO	B	194	49.436	68.686	64.566	1.00	25.83	B	C
	ATOM	671	CG	PRO	B	194	50.078	70.007	64.237	1.00	29.03	B	C
	ATOM	672	C	PRO	B	194	50.747	66.582	65.058	1.00	24.19	B	C
5	ATOM	673	O	PRO	B	194	49.947	65.659	65.180	1.00	21.98	B	O
	ATOM	674	N	PHE	B	195	51.957	66.415	64.536	1.00	24.81	B	N
	ATOM	675	CA	PHE	B	195	52.332	65.114	64.002	1.00	27.97	B	C
	ATOM	676	CB	PHE	B	195	52.628	65.249	62.503	1.00	25.59	B	C
	ATOM	677	CG	PHE	B	195	51.538	65.962	61.750	1.00	23.68	B	C
10	ATOM	678	CD1	PHE	B	195	50.365	65.292	61.404	1.00	21.03	B	C
	ATOM	679	CD2	PHE	B	195	51.657	67.318	61.450	1.00	21.17	B	C
	ATOM	680	CE1	PHE	B	195	49.321	65.970	60.774	1.00	20.97	B	C
	ATOM	681	CE2	PHE	B	195	50.623	67.998	60.825	1.00	21.40	B	C
	ATOM	682	CZ	PHE	B	195	49.453	67.324	60.486	1.00	20.62	B	C
15	ATOM	683	C	PHE	B	195	53.467	64.406	64.704	1.00	30.22	B	C
	ATOM	684	O	PHE	B	195	54.111	63.530	64.113	1.00	30.04	B	O
	ATOM	685	N	ARG	B	196	53.687	64.768	65.971	1.00	33.46	B	N
	ATOM	686	CA	ARG	B	196	54.744	64.166	66.789	1.00	34.38	B	C
	ATOM	687	CB	ARG	B	196	54.643	64.646	68.232	1.00	35.20	B	C
20	ATOM	688	CG	ARG	B	196	54.789	66.146	68.343	1.00	44.55	B	C
	ATOM	689	CD	ARG	B	196	54.771	66.602	69.785	1.00	48.23	B	C
	ATOM	690	NE	ARG	B	196	55.481	65.675	70.666	1.00	51.25	B	N
	ATOM	691	CZ	ARG	B	196	55.870	65.981	71.902	1.00	52.32	B	C
	ATOM	692	NH1	ARG	B	196	55.616	67.187	72.403	1.00	53.40	B	N
25	ATOM	693	NH2	ARG	B	196	56.516	65.088	72.640	1.00	51.81	B	N
	ATOM	694	C	ARG	B	196	54.681	62.654	66.764	1.00	35.14	B	C
	ATOM	695	O	ARG	B	196	53.617	62.047	66.844	1.00	36.27	B	O
	ATOM	696	N	THR	B	197	55.838	62.036	66.657	1.00	36.28	B	N
	ATOM	697	CA	THR	B	197	55.882	60.595	66.616	1.00	36.64	B	C
30	ATOM	698	CB	THR	B	197	56.411	60.145	65.255	1.00	37.06	B	C
	ATOM	699	OG1	THR	B	197	56.022	58.791	65.018	1.00	41.27	B	O
	ATOM	700	CG2	THR	B	197	57.923	60.275	65.202	1.00	34.66	B	C
	ATOM	701	C	THR	B	197	56.751	60.030	67.746	1.00	37.32	B	C
	ATOM	702	O	THR	B	197	57.020	58.828	67.794	1.00	38.29	B	O
35	ATOM	703	N	ASP	B	198	57.165	60.897	68.666	1.00	36.66	B	N
	ATOM	704	CA	ASP	B	198	58.008	60.485	69.779	1.00	37.91	B	C
	ATOM	705	CB	ASP	B	198	58.874	61.664	70.230	1.00	38.89	B	C
	ATOM	706	CG	ASP	B	198	58.059	62.856	70.679	1.00	41.54	B	C
	ATOM	707	OD1	ASP	B	198	57.375	63.476	69.835	1.00	45.32	B	O
40	ATOM	708	OD2	ASP	B	198	58.112	63.179	71.884	1.00	43.11	B	O
	ATOM	709	C	ASP	B	198	57.260	59.918	70.984	1.00	38.41	B	C
	ATOM	710	O	ASP	B	198	57.875	59.402	71.914	1.00	40.34	B	O
	ATOM	711	N	ASN	B	199	55.936	59.984	70.959	1.00	39.32	B	N
	ATOM	712	CA	ASN	B	199	55.123	59.521	72.080	1.00	36.67	B	C
45	ATOM	713	CB	ASN	B	199	54.215	60.663	72.522	1.00	38.64	B	C
	ATOM	714	CG	ASN	B	199	53.722	61.500	71.339	1.00	44.07	B	C
	ATOM	715	OD1	ASN	B	199	53.418	62.690	71.487	1.00	48.29	B	O
	ATOM	716	ND2	ASN	B	199	53.647	60.879	70.154	1.00	38.14	B	N
	ATOM	717	C	ASN	B	199	54.269	58.282	71.809	1.00	35.15	B	C
50	ATOM	718	O	ASN	B	199	53.372	57.967	72.587	1.00	36.49	B	O
	ATOM	719	N	LEU	B	200	54.543	57.571	70.722	1.00	31.23	B	N
	ATOM	720	CA	LEU	B	200	53.763	56.392	70.395	1.00	28.64	B	C
	ATOM	721	CB	LEU	B	200	53.936	56.059	68.914	1.00	31.35	B	C
	ATOM	722	CG	LEU	B	200	53.536	57.099	67.864	1.00	29.87	B	C
55	ATOM	723	CD1	LEU	B	200	54.018	56.636	66.505	1.00	24.89	B	C
	ATOM	724	CD2	LEU	B	200	52.028	57.279	67.853	1.00	28.03	B	C
	ATOM	725	C	LEU	B	200	54.138	55.165	71.228	1.00	28.93	B	C
	ATOM	726	O	LEU	B	200	55.310	54.937	71.514	1.00	29.26	B	O
	ATOM	727	N	PRO	B	201	53.140	54.354	71.624	1.00	28.99	B	N
60	ATOM	728	CD	PRO	B	201	51.708	54.574	71.355	1.00	26.92	B	C
	ATOM	729	CA	PRO	B	201	53.350	53.137	72.420	1.00	28.55	B	C
	ATOM	730	CB	PRO	B	201	51.937	52.612	72.665	1.00	25.95	B	C
	ATOM	731	CG	PRO	B	201	51.050	53.766	72.423	1.00	24.96	B	C
	ATOM	732	C	PRO	B	201	54.210	52.101	71.695	1.00	30.96	B	C
65	ATOM	733	O	PRO	B	201	54.439	52.210	70.495	1.00	31.99	B	O
	ATOM	734	N	GLU	B	202	54.675	51.095	72.427	1.00	30.73	B	N
	ATOM	735	CA	GLU	B	202	55.510	50.054	71.840	1.00	34.79	B	C
	ATOM	736	CB	GLU	B	202	56.340	49.360	72.928	1.00	40.19	B	C

5	ATOM	737	CG	GLU	B	202	56.835	50.289	74.037	1.00	49.91	B	C
	ATOM	738	CD	GLU	B	202	57.457	49.534	75.217	1.00	56.19	B	C
	ATOM	739	OE1	GLU	B	202	56.714	48.834	75.951	1.00	57.73	B	O
	ATOM	740	OE2	GLU	B	202	58.694	49.644	75.410	1.00	58.67	B	O
	ATOM	741	C	GLU	B	202	54.654	49.019	71.124	1.00	33.18	B	C
	ATOM	742	O	GLU	B	202	53.471	48.883	71.416	1.00	32.31	B	O
	ATOM	743	N	ASN	B	203	55.250	48.292	70.184	1.00	31.62	B	N
10	ATOM	744	CA	ASN	B	203	54.521	47.266	69.449	1.00	31.12	B	C
	ATOM	745	CB	ASN	B	203	55.333	46.793	68.241	1.00	31.31	B	C
	ATOM	746	CG	ASN	B	203	55.616	47.910	67.256	1.00	29.55	B	C
	ATOM	747	OD1	ASN	B	203	56.627	47.900	66.563	1.00	31.17	B	O
	ATOM	748	ND2	ASN	B	203	54.726	48.878	67.196	1.00	28.33	B	N
	ATOM	749	C	ASN	B	203	54.248	46.097	70.378	1.00	30.97	B	C
	ATOM	750	O	ASN	B	203	55.026	45.833	71.292	1.00	33.34	B	O
15	ATOM	751	N	LEU	B	204	53.142	45.399	70.157	1.00	31.70	B	N
	ATOM	752	CA	LEU	B	204	52.785	44.258	71.002	1.00	33.51	B	C
	ATOM	753	CB	LEU	B	204	51.404	44.455	71.628	1.00	32.29	B	C
	ATOM	754	CG	LEU	B	204	51.142	45.743	72.411	1.00	33.26	B	C
	ATOM	755	CD1	LEU	B	204	49.643	45.874	72.607	1.00	33.72	B	C
	ATOM	756	CD2	LEU	B	204	51.856	45.725	73.759	1.00	29.65	B	C
	ATOM	757	C	LEU	B	204	52.797	42.927	70.266	1.00	34.05	B	C
20	ATOM	758	O	LEU	B	204	52.567	41.887	70.873	1.00	37.13	B	O
	ATOM	759	N	GLY	B	205	53.043	42.964	68.961	1.00	33.45	B	N
	ATOM	760	CA	GLY	B	205	53.094	41.745	68.175	1.00	30.26	B	C
	ATOM	761	C	GLY	B	205	51.996	40.716	68.357	1.00	29.88	B	C
	ATOM	762	O	GLY	B	205	52.260	39.521	68.225	1.00	30.63	B	O
	ATOM	763	N	TYR	B	206	50.772	41.144	68.660	1.00	29.45	B	N
	ATOM	764	CA	TYR	B	206	49.664	40.191	68.813	1.00	28.78	B	C
30	ATOM	765	CB	TYR	B	206	48.449	40.844	69.471	1.00	30.14	B	C
	ATOM	766	CG	TYR	B	206	48.635	41.245	70.910	1.00	35.12	B	C
	ATOM	767	CD1	TYR	B	206	49.575	40.609	71.721	1.00	37.55	B	C
	ATOM	768	CE1	TYR	B	206	49.735	40.966	73.052	1.00	37.85	B	C
	ATOM	769	CD2	TYR	B	206	47.858	42.255	71.471	1.00	36.60	B	C
	ATOM	770	CE2	TYR	B	206	48.010	42.619	72.799	1.00	37.76	B	C
	ATOM	771	CZ	TYR	B	206	48.951	41.970	73.583	1.00	38.55	B	C
35	ATOM	772	OH	TYR	B	206	49.112	42.327	74.899	1.00	40.56	B	O
	ATOM	773	C	TYR	B	206	49.249	39.713	67.429	1.00	29.99	B	C
	ATOM	774	O	TYR	B	206	49.612	40.314	66.425	1.00	30.14	B	O
	ATOM	775	N	HIS	B	207	48.480	38.635	67.369	1.00	30.18	B	N
	ATOM	776	CA	HIS	B	207	48.026	38.130	66.088	1.00	30.65	B	C
	ATOM	777	CB	HIS	B	207	48.187	36.605	66.018	1.00	31.16	B	C
	ATOM	778	CG	HIS	B	207	47.952	36.039	64.649	1.00	35.69	B	C
40	ATOM	779	CD2	HIS	B	207	48.599	36.246	63.477	1.00	38.65	B	C
	ATOM	780	ND1	HIS	B	207	46.914	35.177	64.362	1.00	40.41	B	N
	ATOM	781	CE1	HIS	B	207	46.929	34.880	63.073	1.00	37.29	B	C
	ATOM	782	NE2	HIS	B	207	47.942	35.516	62.514	1.00	39.42	B	N
	ATOM	783	C	HIS	B	207	46.559	38.510	65.837	1.00	30.76	B	C
	ATOM	784	O	HIS	B	207	45.671	38.135	66.608	1.00	27.56	B	O
	ATOM	785	N	LEU	B	208	46.325	39.251	64.748	1.00	31.06	B	N
50	ATOM	786	CA	LEU	B	208	44.990	39.699	64.344	1.00	28.26	B	C
	ATOM	787	CB	LEU	B	208	45.068	41.091	63.728	1.00	26.66	B	C
	ATOM	788	CG	LEU	B	208	45.705	42.162	64.600	1.00	24.92	B	C
	ATOM	789	CD1	LEU	B	208	45.700	43.476	63.836	1.00	26.36	B	C
	ATOM	790	CD2	LEU	B	208	44.939	42.287	65.908	1.00	22.10	B	C
	ATOM	791	C	LEU	B	208	44.387	38.746	63.324	1.00	27.99	B	C
	ATOM	792	O	LEU	B	208	45.080	38.240	62.448	1.00	30.69	B	O
55	ATOM	793	N	LYS	B	209	43.089	38.508	63.421	1.00	27.17	B	N
	ATOM	794	CA	LYS	B	209	42.449	37.597	62.497	1.00	27.74	B	C
	ATOM	795	CB	LYS	B	209	42.758	36.158	62.901	1.00	29.22	B	C
	ATOM	796	CG	LYS	B	209	42.370	35.120	61.881	1.00	28.81	B	C
	ATOM	797	CD	LYS	B	209	42.741	33.735	62.382	1.00	35.03	B	C
	ATOM	798	CE	LYS	B	209	42.399	32.665	61.363	1.00	36.24	B	C
	ATOM	799	NZ	LYS	B	209	42.033	31.384	62.031	1.00	41.31	B	N
60	ATOM	800	C	LYS	B	209	40.951	37.815	62.465	1.00	26.99	B	C
	ATOM	801	O	LYS	B	209	40.302	37.914	63.499	1.00	27.66	B	O
	ATOM	802	N	MET	B	210	40.413	37.883	61.262	1.00	24.70	B	N
	ATOM	803	CA	MET	B	210	38.996	38.088	61.069	1.00	28.05	B	C
	ATOM	804	CB	MET	B	210	38.722	38.380	59.588	1.00	27.22	B	C

	ATOM	805	CG	MET	B	210	37.488	39.225	59.344	1.00	36.52	B	C
	ATOM	806	SD	MET	B	210	37.763	41.020	59.488	1.00	33.59	B	S
	ATOM	807	CE	MET	B	210	39.446	41.087	59.677	1.00	23.56	B	C
5	ATOM	808	C	MET	B	210	38.225	36.853	61.513	1.00	28.01	B	C
	ATOM	809	O	MET	B	210	38.647	35.726	61.252	1.00	29.44	B	O
	ATOM	810	N	LYS	B	211	37.103	37.065	62.193	1.00	26.40	B	N
	ATOM	811	CA	LYS	B	211	36.268	35.961	62.646	1.00	28.43	B	C
	ATOM	812	CB	LYS	B	211	36.585	35.600	64.093	1.00	32.06	B	C
10	ATOM	813	CG	LYS	B	211	36.064	34.231	64.496	1.00	34.63	B	C
	ATOM	814	CD	LYS	B	211	35.466	34.279	65.876	1.00	37.89	B	C
	ATOM	815	CE	LYS	B	211	36.106	33.258	66.786	1.00	38.71	B	C
	ATOM	816	NZ	LYS	B	211	35.079	32.260	67.196	1.00	45.69	B	N
	ATOM	817	C	LYS	B	211	34.797	36.326	62.530	1.00	27.41	B	C
15	ATOM	818	O	LYS	B	211	34.267	37.068	63.352	1.00	26.77	B	O
	ATOM	819	N	ASP	B	212	34.144	35.789	61.510	1.00	26.54	B	N
	ATOM	820	CA	ASP	B	212	32.739	36.061	61.261	1.00	25.63	B	C
	ATOM	821	CB	ASP	B	212	31.879	35.404	62.334	1.00	28.37	B	C
	ATOM	822	CG	ASP	B	212	31.864	33.896	62.220	1.00	30.04	B	C
20	ATOM	823	OD1	ASP	B	212	31.652	33.374	61.105	1.00	31.11	B	O
	ATOM	824	OD2	ASP	B	212	32.064	33.232	63.255	1.00	35.77	B	O
	ATOM	825	C	ASP	B	212	32.461	37.568	61.194	1.00	23.66	B	C
	ATOM	826	O	ASP	B	212	31.506	38.074	61.787	1.00	20.82	B	O
	ATOM	827	N	GLY	B	213	33.325	38.273	60.470	1.00	22.02	B	N
25	ATOM	828	CA	GLY	B	213	33.164	39.703	60.281	1.00	23.59	B	C
	ATOM	829	C	GLY	B	213	33.776	40.647	61.303	1.00	24.32	B	C
	ATOM	830	O	GLY	B	213	33.695	41.873	61.136	1.00	23.42	B	O
	ATOM	831	N	VAL	B	214	34.396	40.106	62.349	1.00	21.78	B	N
	ATOM	832	CA	VAL	B	214	34.988	40.949	63.380	1.00	20.81	B	C
30	ATOM	833	CB	VAL	B	214	34.226	40.758	64.727	1.00	20.36	B	C
	ATOM	834	CG1	VAL	B	214	34.770	41.695	65.798	1.00	16.91	B	C
	ATOM	835	CG2	VAL	B	214	32.751	41.021	64.511	1.00	18.66	B	C
	ATOM	836	C	VAL	B	214	36.465	40.629	63.571	1.00	23.23	B	C
	ATOM	837	O	VAL	B	214	36.854	39.467	63.535	1.00	26.34	B	O
35	ATOM	838	N	VAL	B	215	37.297	41.654	63.741	1.00	22.04	B	N
	ATOM	839	CA	VAL	B	215	38.713	41.417	63.974	1.00	21.67	B	C
	ATOM	840	CB	VAL	B	215	39.555	42.702	63.790	1.00	20.74	B	C
	ATOM	841	CG1	VAL	B	215	41.025	42.402	64.070	1.00	19.11	B	C
	ATOM	842	CG2	VAL	B	215	39.383	43.252	62.384	1.00	19.80	B	C
40	ATOM	843	C	VAL	B	215	38.913	40.910	65.421	1.00	24.55	B	C
	ATOM	844	O	VAL	B	215	38.511	41.569	66.385	1.00	23.17	B	O
	ATOM	845	N	TYR	B	216	39.516	39.731	65.567	1.00	24.63	B	N
	ATOM	846	CA	TYR	B	216	39.782	39.167	66.885	1.00	23.06	B	C
	ATOM	847	CB	TYR	B	216	39.352	37.708	66.948	1.00	20.94	B	C
45	ATOM	848	CG	TYR	B	216	37.922	37.539	67.381	1.00	21.18	B	C
	ATOM	849	CD1	TYR	B	216	37.595	36.803	68.509	1.00	21.21	B	C
	ATOM	850	CE1	TYR	B	216	36.278	36.646	68.905	1.00	20.59	B	C
	ATOM	851	CD2	TYR	B	216	36.887	38.119	66.656	1.00	24.73	B	C
	ATOM	852	CE2	TYR	B	216	35.561	37.970	67.046	1.00	21.83	B	C
50	ATOM	853	CZ	TYR	B	216	35.266	37.235	68.167	1.00	20.24	B	C
	ATOM	854	OH	TYR	B	216	33.957	37.103	68.550	1.00	21.30	B	O
	ATOM	855	C	TYR	B	216	41.266	39.271	67.187	1.00	24.47	B	C
	ATOM	856	O	TYR	B	216	42.100	39.149	66.298	1.00	22.20	B	O
	ATOM	857	N	ILE	B	217	41.589	39.510	68.451	1.00	27.66	B	N
55	ATOM	858	CA	ILE	B	217	42.972	39.644	68.863	1.00	29.85	B	C
	ATOM	859	CB	ILE	B	217	43.166	40.897	69.729	1.00	30.32	B	C
	ATOM	860	CG2	ILE	B	217	44.665	41.122	69.994	1.00	27.27	B	C
	ATOM	861	CG1	ILE	B	217	42.536	42.106	69.026	1.00	29.63	B	C
	ATOM	862	CD1	ILE	B	217	41.544	42.860	69.875	1.00	30.26	B	C
60	ATOM	863	C	ILE	B	217	43.419	38.418	69.648	1.00	32.55	B	C
	ATOM	864	O	ILE	B	217	42.798	38.043	70.644	1.00	30.82	B	O
	ATOM	865	N	TYR	B	218	44.489	37.788	69.174	1.00	35.10	B	N
	ATOM	866	CA	TYR	B	218	45.032	36.604	69.818	1.00	35.08	B	C
	ATOM	867	CB	TYR	B	218	45.098	35.438	68.840	1.00	29.76	B	C
	ATOM	868	CG	TYR	B	218	43.741	35.062	68.317	1.00	27.42	B	C
65	ATOM	869	CD1	TYR	B	218	42.960	34.119	68.975	1.00	26.58	B	C
	ATOM	870	CE1	TYR	B	218	41.681	33.810	68.534	1.00	26.50	B	C
	ATOM	871	CD2	TYR	B	218	43.211	35.694	67.189	1.00	29.13	B	C
	ATOM	872	CE2	TYR	B	218	41.932	35.398	66.732	1.00	28.63	B	C

	ATOM	873	CZ	TYR	B	218	41.168	34.457	67.407	1.00	30.16	B	C
	ATOM	874	OH	TYR	B	218	39.897	34.171	66.950	1.00	25.67	B	O
	ATOM	875	C	TYR	B	218	46.408	36.960	70.306	1.00	40.26	B	C
5	ATOM	876	O	TYR	B	218	47.222	37.511	69.560	1.00	38.63	B	O
	ATOM	877	N	ALA	B	219	46.647	36.661	71.579	1.00	47.28	B	N
	ATOM	878	CA	ALA	B	219	47.921	36.957	72.221	1.00	52.70	B	C
	ATOM	879	CB	ALA	B	219	47.972	36.343	73.628	1.00	54.51	B	C
	ATOM	880	C	ALA	B	219	49.054	36.418	71.378	1.00	54.11	B	C
10	ATOM	881	O	ALA	B	219	49.034	35.258	70.987	1.00	51.84	B	O
	ATOM	882	N	ASN	B	220	50.015	37.294	71.096	1.00	58.22	B	N
	ATOM	883	CA	ASN	B	220	51.210	36.995	70.310	1.00	61.80	B	C
	ATOM	884	CB	ASN	B	220	52.459	37.444	71.092	1.00	63.24	B	C
	ATOM	885	CG	ASN	B	220	52.116	38.151	72.415	1.00	64.72	B	C
	ATOM	886	OD1	ASN	B	220	52.642	39.227	72.706	1.00	67.53	B	O
15	ATOM	887	ND2	ASN	B	220	51.237	37.544	73.216	1.00	64.68	B	N
	ATOM	888	C	ASN	B	220	51.319	35.512	69.954	1.00	63.36	B	C
	ATOM	889	O	ASN	B	220	52.304	34.842	70.296	1.00	66.17	B	O
	ATOM	890	N	GLU	B	221	50.318	34.999	69.250	1.00	61.65	B	N
20	ATOM	891	CA	GLU	B	221	50.334	33.597	68.906	1.00	60.28	B	C
	ATOM	892	CB	GLU	B	221	49.849	32.768	70.087	1.00	61.89	B	C
	ATOM	893	CG	GLU	B	221	50.839	31.775	70.599	1.00	65.30	B	C
	ATOM	894	CD	GLU	B	221	50.573	31.410	72.044	1.00	70.75	B	C
	ATOM	895	OE1	GLU	B	221	49.979	30.329	72.295	1.00	72.80	B	O
	ATOM	896	OE2	GLU	B	221	50.960	32.209	72.930	1.00	73.07	B	O
25	ATOM	897	C	GLU	B	221	49.473	33.263	67.722	1.00	59.78	B	C
	ATOM	898	O	GLU	B	221	48.251	33.434	67.764	1.00	58.13	B	O
	ATOM	899	N	ALA	B	222	50.113	32.771	66.668	1.00	58.88	B	N
	ATOM	900	CA	ALA	B	222	49.382	32.337	65.496	1.00	58.40	B	C
30	ATOM	901	CB	ALA	B	222	50.349	31.964	64.361	1.00	57.38	B	C
	ATOM	902	C	ALA	B	222	48.651	31.100	66.037	1.00	58.24	B	C
	ATOM	903	O	ALA	B	222	47.980	30.375	65.306	1.00	56.92	B	O
	ATOM	904	N	ALA	B	223	48.805	30.879	67.344	1.00	60.28	B	N
	ATOM	905	CA	ALA	B	223	48.156	29.785	68.051	1.00	62.40	B	C
	ATOM	906	CB	ALA	B	223	48.665	29.710	69.467	1.00	61.42	B	C
35	ATOM	907	C	ALA	B	223	46.659	30.088	68.051	1.00	65.27	B	C
	ATOM	908	O	ALA	B	223	45.883	29.470	68.786	1.00	66.41	B	O
	ATOM	909	N	ALA	B	224	46.278	31.073	67.234	1.00	65.54	B	N
	ATOM	910	CA	ALA	B	224	44.892	31.478	67.065	1.00	62.20	B	C
40	ATOM	911	CB	ALA	B	224	44.803	32.601	66.047	1.00	58.10	B	C
	ATOM	912	C	ALA	B	224	44.148	30.245	66.555	1.00	63.78	B	C
	ATOM	913	O	ALA	B	224	42.918	30.197	66.603	1.00	65.18	B	O
	ATOM	914	N	GLY	B	225	44.908	29.258	66.062	1.00	63.09	B	N
	ATOM	915	CA	GLY	B	225	44.329	28.017	65.566	1.00	61.43	B	C
	ATOM	916	C	GLY	B	225	43.317	27.517	66.575	1.00	61.76	B	C
45	ATOM	917	O	GLY	B	225	42.221	27.079	66.225	1.00	62.41	B	O
	ATOM	918	N	LYS	B	226	43.702	27.567	67.844	1.00	61.99	B	N
	ATOM	919	CA	LYS	B	226	42.805	27.185	68.918	1.00	62.10	B	C
	ATOM	920	CB	LYS	B	226	43.592	26.674	70.123	1.00	62.69	B	C
50	ATOM	921	CG	LYS	B	226	42.841	25.638	70.953	1.00	68.05	B	C
	ATOM	922	CD	LYS	B	226	42.549	24.357	70.155	1.00	69.40	B	C
	ATOM	923	CE	LYS	B	226	42.620	23.105	71.037	1.00	68.42	B	C
	ATOM	924	NZ	LYS	B	226	44.034	22.666	71.280	1.00	68.88	B	N
	ATOM	925	C	LYS	B	226	42.150	28.525	69.233	1.00	62.52	B	C
	ATOM	926	O	LYS	B	226	42.821	29.461	69.687	1.00	65.26	B	O
55	ATOM	927	N	ASP	B	227	40.855	28.632	68.956	1.00	59.33	B	N
	ATOM	928	CA	ASP	B	227	40.127	29.875	69.187	1.00	55.88	B	C
	ATOM	929	CB	ASP	B	227	38.656	29.689	68.833	1.00	56.48	B	C
	ATOM	930	CG	ASP	B	227	38.146	30.768	67.903	1.00	59.75	B	C
	ATOM	931	OD1	ASP	B	227	37.523	30.405	66.883	1.00	57.34	B	O
60	ATOM	932	OD2	ASP	B	227	38.370	31.974	68.192	1.00	58.86	B	O
	ATOM	933	C	ASP	B	227	40.241	30.381	70.618	1.00	52.83	B	C
	ATOM	934	O	ASP	B	227	39.348	30.157	71.429	1.00	53.73	B	O
	ATOM	935	N	GLU	B	228	41.334	31.074	70.920	1.00	50.01	B	N
65	ATOM	936	CA	GLU	B	228	41.557	31.604	72.262	1.00	47.24	B	C
	ATOM	937	CB	GLU	B	228	42.581	30.738	73.005	1.00	48.19	B	C
	ATOM	938	CG	GLU	B	228	41.990	29.474	73.615	1.00	51.95	B	C
	ATOM	939	CD	GLU	B	228	42.952	28.290	73.600	1.00	53.12	B	C
	ATOM	940	OE1	GLU	B	228	44.168	28.504	73.826	1.00	52.59	B	O

	ATOM	941	OE2	GLU	B	228	42.485	27.148	73.367	1.00	52.59	B	O
	ATOM	942	C	GLU	B	228	42.038	33.048	72.202	1.00	42.97	B	C
	ATOM	943	O	GLU	B	228	43.209	33.337	72.441	1.00	44.50	B	O
5	ATOM	944	N	PRO	B	229	41.133	33.978	71.880	1.00	39.99	B	N
	ATOM	945	CD	PRO	B	229	39.710	33.759	71.573	1.00	38.82	B	C
	ATOM	946	CA	PRO	B	229	41.502	35.394	71.795	1.00	38.29	B	C
	ATOM	947	CB	PRO	B	229	40.235	36.067	71.276	1.00	37.39	B	C
	ATOM	948	CG	PRO	B	229	39.133	35.136	71.653	1.00	35.42	B	C
10	ATOM	949	C	PRO	B	229	41.918	35.953	73.138	1.00	37.34	B	C
	ATOM	950	O	PRO	B	229	41.617	35.364	74.167	1.00	37.53	B	O
	ATOM	951	N	LYS	B	230	42.610	37.087	73.126	1.00	38.28	B	N
	ATOM	952	CA	LYS	B	230	43.025	37.735	74.363	1.00	38.32	B	C
	ATOM	953	CB	LYS	B	230	43.765	39.045	74.065	1.00	39.27	B	C
15	ATOM	954	CG	LYS	B	230	45.260	38.906	73.851	1.00	39.80	B	C
	ATOM	955	CD	LYS	B	230	45.988	38.854	75.169	1.00	44.72	B	C
	ATOM	956	CE	LYS	B	230	47.146	39.823	75.207	1.00	47.38	B	C
	ATOM	957	NZ	LYS	B	230	48.458	39.090	75.212	1.00	51.91	B	N
	ATOM	958	C	LYS	B	230	41.732	38.042	75.125	1.00	40.30	B	C
20	ATOM	959	O	LYS	B	230	40.686	38.274	74.513	1.00	40.15	B	O
	ATOM	960	N	PRO	B	231	41.779	38.025	76.469	1.00	40.96	B	N
	ATOM	961	CD	PRO	B	231	42.943	37.726	77.325	1.00	41.11	B	C
	ATOM	962	CA	PRO	B	231	40.577	38.314	77.262	1.00	40.51	B	C
	ATOM	963	CB	PRO	B	231	41.100	38.346	78.701	1.00	42.62	B	C
25	ATOM	964	CG	PRO	B	231	42.317	37.473	78.666	1.00	41.53	B	C
	ATOM	965	C	PRO	B	231	39.914	39.633	76.844	1.00	38.46	B	C
	ATOM	966	O	PRO	B	231	40.546	40.692	76.869	1.00	36.45	B	O
	ATOM	967	N	LEU	B	232	38.640	39.554	76.465	1.00	37.40	B	N
	ATOM	968	CA	LEU	B	232	37.885	40.726	76.013	1.00	37.18	B	C
30	ATOM	969	CB	LEU	B	232	38.492	41.257	74.715	1.00	36.61	B	C
	ATOM	970	CG	LEU	B	232	38.215	42.693	74.289	1.00	37.97	B	C
	ATOM	971	CD1	LEU	B	232	39.383	43.180	73.457	1.00	38.78	B	C
	ATOM	972	CD2	LEU	B	232	36.926	42.763	73.485	1.00	38.49	B	C
	ATOM	973	C	LEU	B	232	36.436	40.355	75.758	1.00	35.18	B	C
35	ATOM	974	O	LEU	B	232	36.146	39.246	75.332	1.00	34.35	B	O
	ATOM	975	N	LEU	B	233	35.524	41.277	76.033	1.00	36.65	B	N
	ATOM	976	CA	LEU	B	233	34.101	41.028	75.788	1.00	38.10	B	C
	ATOM	977	CB	LEU	B	233	33.223	41.902	76.692	1.00	40.47	B	C
	ATOM	978	CG	LEU	B	233	33.593	43.391	76.660	1.00	47.21	B	C
40	ATOM	979	CD1	LEU	B	233	32.360	44.252	77.001	1.00	46.85	B	C
	ATOM	980	CD2	LEU	B	233	34.782	43.653	77.630	1.00	45.91	B	C
	ATOM	981	C	LEU	B	233	33.844	41.394	74.328	1.00	36.58	B	C
	ATOM	982	O	LEU	B	233	33.867	42.570	73.955	1.00	36.93	B	O
	ATOM	983	N	TYR	B	234	33.624	40.387	73.495	1.00	32.15	B	N
45	ATOM	984	CA	TYR	B	234	33.378	40.645	72.085	1.00	29.19	B	C
	ATOM	985	CB	TYR	B	234	33.931	39.493	71.237	1.00	25.02	B	C
	ATOM	986	CG	TYR	B	234	35.438	39.525	71.094	1.00	25.58	B	C
	ATOM	987	CD1	TYR	B	234	36.265	38.909	72.032	1.00	26.25	B	C
	ATOM	988	CE1	TYR	B	234	37.658	38.952	71.911	1.00	27.15	B	C
50	ATOM	989	CD2	TYR	B	234	36.041	40.187	70.030	1.00	25.83	B	C
	ATOM	990	CE2	TYR	B	234	37.427	40.234	69.902	1.00	25.88	B	C
	ATOM	991	CZ	TYR	B	234	38.226	39.619	70.840	1.00	26.22	B	C
	ATOM	992	OH	TYR	B	234	39.591	39.675	70.696	1.00	28.18	B	O
	ATOM	993	C	TYR	B	234	31.881	40.803	71.858	1.00	28.32	B	C
55	ATOM	994	O	TYR	B	234	31.071	40.403	72.703	1.00	27.98	B	O
	ATOM	995	N	PRO	B	235	31.490	41.398	70.721	1.00	25.92	B	N
	ATOM	996	CD	PRO	B	235	32.334	41.919	69.630	1.00	25.51	B	C
	ATOM	997	CA	PRO	B	235	30.059	41.568	70.453	1.00	24.19	B	C
	ATOM	998	CB	PRO	B	235	30.013	42.298	69.107	1.00	24.37	B	C
60	ATOM	999	CG	PRO	B	235	31.407	42.793	68.866	1.00	26.37	B	C
	ATOM	1000	C	PRO	B	235	29.371	40.214	70.376	1.00	21.53	B	C
	ATOM	1001	O	PRO	B	235	29.958	39.236	69.934	1.00	22.35	B	O
	ATOM	1002	N	ASN	B	236	28.122	40.163	70.807	1.00	22.37	B	N
	ATOM	1003	CA	ASN	B	236	27.349	38.934	70.780	1.00	22.84	B	C
65	ATOM	1004	CB	ASN	B	236	26.853	38.597	72.183	1.00	25.61	B	C
	ATOM	1005	CG	ASN	B	236	26.087	37.297	72.230	1.00	28.81	B	C
	ATOM	1006	OD1	ASN	B	236	25.176	37.060	71.431	1.00	32.46	B	O
	ATOM	1007	ND2	ASN	B	236	26.447	36.444	73.170	1.00	34.31	B	N
	ATOM	1008	C	ASN	B	236	26.168	39.158	69.854	1.00	23.74	B	C

	ATOM	1009	O	ASN	B	236	25.203	39.832	70.226	1.00	22.08	B	O
	ATOM	1010	N	MET	B	237	26.248	38.581	68.655	1.00	23.43	B	N
	ATOM	1011	CA	MET	B	237	25.214	38.740	67.649	1.00	24.96	B	C
	ATOM	1012	CB	MET	B	237	25.645	38.102	66.336	1.00	28.70	B	C
5	ATOM	1013	CG	MET	B	237	24.903	38.684	65.139	1.00	33.12	B	C
	ATOM	1014	SD	MET	B	237	25.378	37.904	63.593	1.00	39.43	B	S
	ATOM	1015	CE	MET	B	237	23.978	36.830	63.332	1.00	38.46	B	C
	ATOM	1016	C	MET	B	237	23.850	38.210	68.020	1.00	22.57	B	C
	ATOM	1017	O	MET	B	237	22.836	38.794	67.662	1.00	24.52	B	O
10	ATOM	1018	N	GLU	B	238	23.813	37.095	68.720	1.00	24.61	B	N
	ATOM	1019	CA	GLU	B	238	22.534	36.534	69.131	1.00	28.18	B	C
	ATOM	1020	CB	GLU	B	238	22.738	35.150	69.749	1.00	34.76	B	C
	ATOM	1021	CG	GLU	B	238	21.476	34.298	69.757	1.00	47.02	B	C
	ATOM	1022	CD	GLU	B	238	21.553	33.123	70.732	1.00	55.01	B	C
15	ATOM	1023	OE1	GLU	B	238	20.484	32.706	71.250	1.00	58.24	B	O
	ATOM	1024	OE2	GLU	B	238	22.680	32.621	70.977	1.00	58.83	B	O
	ATOM	1025	C	GLU	B	238	21.846	37.467	70.140	1.00	25.40	B	C
	ATOM	1026	O	GLU	B	238	20.627	37.627	70.124	1.00	21.85	B	O
	ATOM	1027	N	GLU	B	239	22.637	38.079	71.015	1.00	21.84	B	N
20	ATOM	1028	CA	GLU	B	239	22.096	38.997	72.005	1.00	23.20	B	C
	ATOM	1029	CB	GLU	B	239	23.182	39.361	73.029	1.00	26.60	B	C
	ATOM	1030	CG	GLU	B	239	22.697	40.232	74.191	1.00	32.03	B	C
	ATOM	1031	CD	GLU	B	239	23.843	40.743	75.070	1.00	34.33	B	C
	ATOM	1032	OE1	GLU	B	239	23.666	41.773	75.759	1.00	35.78	B	O
25	ATOM	1033	OE2	GLU	B	239	24.923	40.114	75.071	1.00	38.61	B	O
	ATOM	1034	C	GLU	B	239	21.612	40.257	71.285	1.00	19.73	B	C
	ATOM	1035	O	GLU	B	239	20.557	40.812	71.594	1.00	18.95	B	O
	ATOM	1036	N	PHE	B	240	22.395	40.701	70.310	1.00	18.32	B	N
	ATOM	1037	CA	PHE	B	240	22.051	41.895	69.548	1.00	17.56	B	C
30	ATOM	1038	CB	PHE	B	240	23.153	42.222	68.550	1.00	14.88	B	C
	ATOM	1039	CG	PHE	B	240	22.869	43.434	67.729	1.00	16.71	B	C
	ATOM	1040	CD1	PHE	B	240	22.033	43.359	66.629	1.00	17.41	B	C
	ATOM	1041	CD2	PHE	B	240	23.449	44.653	68.047	1.00	16.75	B	C
	ATOM	1042	CE1	PHE	B	240	21.780	44.479	65.854	1.00	17.15	B	C
35	ATOM	1043	CE2	PHE	B	240	23.203	45.774	67.281	1.00	17.48	B	C
	ATOM	1044	CZ	PHE	B	240	22.364	45.685	66.178	1.00	16.66	B	C
	ATOM	1045	C	PHE	B	240	20.741	41.705	68.802	1.00	18.90	B	C
	ATOM	1046	O	PHE	B	240	19.871	42.581	68.810	1.00	15.74	B	O
	ATOM	1047	N	LEU	B	241	20.608	40.552	68.155	1.00	18.39	B	N
40	ATOM	1048	CA	LEU	B	241	19.406	40.248	67.404	1.00	19.63	B	C
	ATOM	1049	CB	LEU	B	241	19.611	38.960	66.599	1.00	18.53	B	C
	ATOM	1050	CG	LEU	B	241	20.471	39.072	65.325	1.00	22.75	B	C
	ATOM	1051	CD1	LEU	B	241	20.858	37.663	64.821	1.00	19.60	B	C
	ATOM	1052	CD2	LEU	B	241	19.702	39.840	64.241	1.00	17.74	B	C
45	ATOM	1053	C	LEU	B	241	18.189	40.118	68.322	1.00	21.17	B	C
	ATOM	1054	O	LEU	B	241	17.062	40.396	67.915	1.00	19.71	B	O
	ATOM	1055	N	ASP	B	242	18.410	39.694	69.563	1.00	23.18	B	N
	ATOM	1056	CA	ASP	B	242	17.304	39.549	70.512	1.00	23.77	B	C
	ATOM	1057	CB	ASP	B	242	17.776	38.866	71.796	1.00	28.78	B	C
50	ATOM	1058	CG	ASP	B	242	17.999	37.379	71.622	1.00	37.27	B	C
	ATOM	1059	OD1	ASP	B	242	17.480	36.800	70.639	1.00	44.82	B	O
	ATOM	1060	OD2	ASP	B	242	18.698	36.780	72.471	1.00	42.17	B	O
	ATOM	1061	C	ASP	B	242	16.770	40.932	70.863	1.00	21.84	B	C
	ATOM	1062	O	ASP	B	242	15.562	41.157	70.917	1.00	19.74	B	O
55	ATOM	1063	N	ASP	B	243	17.697	41.848	71.117	1.00	19.52	B	N
	ATOM	1064	CA	ASP	B	243	17.361	43.217	71.464	1.00	18.39	B	C
	ATOM	1065	CB	ASP	B	243	18.621	43.945	71.934	1.00	16.45	B	C
	ATOM	1066	CG	ASP	B	243	19.139	43.407	73.262	1.00	17.28	B	C
	ATOM	1067	OD1	ASP	B	243	18.320	42.875	74.036	1.00	17.86	B	O
60	ATOM	1068	OD2	ASP	B	243	20.353	43.511	73.535	1.00	17.18	B	O
	ATOM	1069	C	ASP	B	243	16.746	43.941	70.278	1.00	17.47	B	C
	ATOM	1070	O	ASP	B	243	15.821	44.720	70.446	1.00	17.83	B	O
	ATOM	1071	N	MET	B	244	17.263	43.675	69.081	1.00	18.00	B	N
	ATOM	1072	CA	MET	B	244	16.761	44.310	67.874	1.00	18.04	B	C
65	ATOM	1073	CB	MET	B	244	17.633	43.915	66.679	1.00	17.88	B	C
	ATOM	1074	CG	MET	B	244	17.190	44.497	65.356	1.00	18.69	B	C
	ATOM	1075	SD	MET	B	244	17.987	43.623	63.984	1.00	27.24	B	S
	ATOM	1076	CE	MET	B	244	16.935	42.146	63.836	1.00	18.62	B	C

	ATOM	1077	C	MET	B	244	15.314	43.889	67.647	1.00	18.11	B	C
	ATOM	1078	O	MET	B	244	14.445	44.727	67.410	1.00	18.70	B	O
	ATOM	1079	N	ASN	B	245	15.048	42.590	67.747	1.00	16.70	B	N
5	ATOM	1080	CA	ASN	B	245	13.697	42.077	67.543	1.00	18.47	B	C
	ATOM	1081	CB	ASN	B	245	13.693	40.557	67.635	1.00	18.35	B	C
	ATOM	1082	CG	ASN	B	245	14.281	39.907	66.401	1.00	22.78	B	C
	ATOM	1083	OD1	ASN	B	245	13.943	40.274	65.280	1.00	25.57	B	O
	ATOM	1084	ND2	ASN	B	245	15.171	38.949	66.600	1.00	23.34	B	N
10	ATOM	1085	C	ASN	B	245	12.722	42.651	68.555	1.00	20.39	B	C
	ATOM	1086	O	ASN	B	245	11.550	42.880	68.255	1.00	22.01	B	O
	ATOM	1087	N	PHE	B	246	13.206	42.882	69.769	1.00	21.81	B	N
	ATOM	1088	CA	PHE	B	246	12.358	43.447	70.812	1.00	19.89	B	C
	ATOM	1089	CB	PHE	B	246	13.088	43.447	72.151	1.00	18.60	B	C
15	ATOM	1090	CG	PHE	B	246	12.532	44.441	73.121	1.00	22.59	B	C
	ATOM	1091	CD1	PHE	B	246	13.097	45.707	73.246	1.00	23.90	B	C
	ATOM	1092	CD2	PHE	B	246	11.403	44.137	73.866	1.00	22.13	B	C
	ATOM	1093	CE1	PHE	B	246	12.541	46.654	74.093	1.00	23.49	B	C
	ATOM	1094	CE2	PHE	B	246	10.841	45.078	74.716	1.00	21.44	B	C
20	ATOM	1095	CZ	PHE	B	246	11.410	46.339	74.828	1.00	21.33	B	C
	ATOM	1096	C	PHE	B	246	11.977	44.888	70.444	1.00	17.86	B	C
	ATOM	1097	O	PHE	B	246	10.832	45.301	70.608	1.00	16.98	B	O
	ATOM	1098	N	LEU	B	247	12.948	45.643	69.945	1.00	14.61	B	N
	ATOM	1099	CA	LEU	B	247	12.699	47.024	69.572	1.00	14.92	B	C
25	ATOM	1100	CB	LEU	B	247	14.025	47.734	69.279	1.00	10.21	B	C
	ATOM	1101	CG	LEU	B	247	14.870	48.074	70.521	1.00	13.36	B	C
	ATOM	1102	CD1	LEU	B	247	16.228	48.574	70.072	1.00	11.59	B	C
	ATOM	1103	CD2	LEU	B	247	14.171	49.134	71.395	1.00	6.31	B	C
	ATOM	1104	C	LEU	B	247	11.768	47.085	68.367	1.00	15.84	B	C
30	ATOM	1105	O	LEU	B	247	10.888	47.947	68.286	1.00	15.13	B	O
	ATOM	1106	N	LEU	B	248	11.954	46.152	67.440	1.00	17.12	B	N
	ATOM	1107	CA	LEU	B	248	11.114	46.111	66.260	1.00	18.72	B	C
	ATOM	1108	CB	LEU	B	248	11.541	44.960	65.347	1.00	20.98	B	C
	ATOM	1109	CG	LEU	B	248	12.212	45.307	64.015	1.00	24.01	B	C
35	ATOM	1110	CD1	LEU	B	248	12.797	46.711	64.037	1.00	28.87	B	C
	ATOM	1111	CD2	LEU	B	248	13.302	44.295	63.752	1.00	23.77	B	C
	ATOM	1112	C	LEU	B	248	9.681	45.917	66.727	1.00	20.47	B	C
	ATOM	1113	O	LEU	B	248	8.763	46.623	66.291	1.00	21.62	B	O
	ATOM	1114	N	ALA	B	249	9.483	44.976	67.642	1.00	19.58	B	N
40	ATOM	1115	CA	ALA	B	249	8.138	44.721	68.134	1.00	20.91	B	C
	ATOM	1116	CB	ALA	B	249	8.148	43.526	69.074	1.00	19.69	B	C
	ATOM	1117	C	ALA	B	249	7.603	45.953	68.851	1.00	21.11	B	C
	ATOM	1118	O	ALA	B	249	6.490	46.414	68.586	1.00	25.37	B	O
	ATOM	1119	N	LEU	B	250	8.416	46.500	69.743	1.00	20.49	B	N
45	ATOM	1120	CA	LEU	B	250	8.028	47.673	70.520	1.00	18.63	B	C
	ATOM	1121	CB	LEU	B	250	9.209	48.139	71.382	1.00	16.80	B	C
	ATOM	1122	CG	LEU	B	250	8.922	49.365	72.246	1.00	14.96	B	C
	ATOM	1123	CD1	LEU	B	250	8.093	48.896	73.398	1.00	14.52	B	C
	ATOM	1124	CD2	LEU	B	250	10.195	50.037	72.735	1.00	12.68	B	C
50	ATOM	1125	C	LEU	B	250	7.504	48.846	69.687	1.00	19.96	B	C
	ATOM	1126	O	LEU	B	250	6.396	49.339	69.936	1.00	17.34	B	O
	ATOM	1127	N	ILE	B	251	8.283	49.293	68.700	1.00	20.79	B	N
	ATOM	1128	CA	ILE	B	251	7.856	50.432	67.889	1.00	21.73	B	C
	ATOM	1129	CB	ILE	B	251	8.988	50.923	66.936	1.00	21.06	B	C
55	ATOM	1130	CG2	ILE	B	251	10.274	51.108	67.720	1.00	19.13	B	C
	ATOM	1131	CG1	ILE	B	251	9.205	49.936	65.795	1.00	21.36	B	C
	ATOM	1132	CD1	ILE	B	251	10.356	50.323	64.876	1.00	21.24	B	C
	ATOM	1133	C	ILE	B	251	6.575	50.192	67.093	1.00	21.15	B	C
	ATOM	1134	O	ILE	B	251	5.948	51.139	66.617	1.00	24.37	B	O
60	ATOM	1135	N	ALA	B	252	6.164	48.938	66.970	1.00	20.52	B	N
	ATOM	1136	CA	ALA	B	252	4.948	48.640	66.232	1.00	22.46	B	C
	ATOM	1137	CB	ALA	B	252	5.155	47.418	65.352	1.00	21.90	B	C
	ATOM	1138	C	ALA	B	252	3.751	48.421	67.152	1.00	23.23	B	C
	ATOM	1139	O	ALA	B	252	2.629	48.263	66.680	1.00	24.93	B	O
65	ATOM	1140	N	GLN	B	253	3.993	48.423	68.461	1.00	23.05	B	N
	ATOM	1141	CA	GLN	B	253	2.942	48.221	69.463	1.00	23.74	B	C
	ATOM	1142	CB	GLN	B	253	3.572	47.997	70.816	1.00	28.14	B	C
	ATOM	1143	CG	GLN	B	253	3.286	46.665	71.403	1.00	32.16	B	C
	ATOM	1144	CD	GLN	B	253	4.257	46.357	72.502	1.00	35.11	B	C

	ATOM	1145	OE1	GLN	B	253	5.030	45.412	72.410	1.00	41.32	B	O
	ATOM	1146	NE2	GLN	B	253	4.234	47.163	73.554	1.00	38.74	B	N
	ATOM	1147	C	GLN	B	253	1.944	49.367	69.599	1.00	22.41	B	C
	ATOM	1148	O	GLN	B	253	2.310	50.489	69.935	1.00	22.11	B	O
5	ATOM	1149	N	GLY	B	254	0.672	49.054	69.398	1.00	21.23	B	N
	ATOM	1150	CA	GLY	B	254	-0.367	50.065	69.446	1.00	19.86	B	C
	ATOM	1151	C	GLY	B	254	-0.328	51.004	70.622	1.00	19.64	B	C
	ATOM	1152	O	GLY	B	254	-0.258	52.220	70.464	1.00	21.84	B	O
10	ATOM	1153	N	PRO	B	255	-0.402	50.463	71.836	1.00	20.91	B	N
	ATOM	1154	CD	PRO	B	255	-0.547	49.026	72.138	1.00	20.34	B	C
	ATOM	1155	CA	PRO	B	255	-0.375	51.284	73.051	1.00	16.62	B	C
	ATOM	1156	CB	PRO	B	255	-0.479	50.261	74.171	1.00	17.46	B	C
	ATOM	1157	CG	PRO	B	255	-1.121	49.048	73.514	1.00	20.18	B	C
	ATOM	1158	C	PRO	B	255	0.870	52.156	73.178	1.00	14.98	B	C
15	ATOM	1159	O	PRO	B	255	0.790	53.287	73.633	1.00	15.15	B	O
	ATOM	1160	N	VAL	B	256	2.025	51.632	72.789	1.00	14.07	B	N
	ATOM	1161	CA	VAL	B	256	3.250	52.412	72.870	1.00	14.17	B	C
	ATOM	1162	CB	VAL	B	256	4.497	51.519	72.611	1.00	13.30	B	C
20	ATOM	1163	CG1	VAL	B	256	5.766	52.316	72.836	1.00	10.87	B	C
	ATOM	1164	CG2	VAL	B	256	4.483	50.323	73.555	1.00	11.43	B	C
	ATOM	1165	C	VAL	B	256	3.203	53.583	71.869	1.00	16.22	B	C
	ATOM	1166	O	VAL	B	256	3.637	54.699	72.175	1.00	14.67	B	O
	ATOM	1167	N	LYS	B	257	2.653	53.325	70.687	1.00	15.56	B	N
25	ATOM	1168	CA	LYS	B	257	2.533	54.346	69.658	1.00	17.59	B	C
	ATOM	1169	CB	LYS	B	257	1.994	53.716	68.360	1.00	17.67	B	C
	ATOM	1170	CG	LYS	B	257	3.084	53.347	67.376	1.00	23.15	B	C
	ATOM	1171	CD	LYS	B	257	2.821	52.021	66.743	1.00	24.91	B	C
	ATOM	1172	CE	LYS	B	257	2.132	52.184	65.412	1.00	29.95	B	C
	ATOM	1173	NZ	LYS	B	257	1.403	50.908	65.045	1.00	37.98	B	N
30	ATOM	1174	C	LYS	B	257	1.589	55.443	70.154	1.00	16.72	B	C
	ATOM	1175	O	LYS	B	257	1.869	56.645	70.028	1.00	14.83	B	O
	ATOM	1176	N	THR	B	258	0.466	55.026	70.726	1.00	14.74	B	N
	ATOM	1177	CA	THR	B	258	-0.518	55.975	71.233	1.00	15.78	B	C
35	ATOM	1178	CB	THR	B	258	-1.731	55.235	71.821	1.00	17.52	B	C
	ATOM	1179	OG1	THR	B	258	-2.389	54.505	70.787	1.00	21.92	B	O
	ATOM	1180	CG2	THR	B	258	-2.710	56.207	72.443	1.00	17.47	B	C
	ATOM	1181	C	THR	B	258	0.079	56.868	72.332	1.00	16.63	B	C
	ATOM	1182	O	THR	B	258	-0.076	58.086	72.309	1.00	16.85	B	O
40	ATOM	1183	N	TYR	B	259	0.753	56.252	73.299	1.00	15.35	B	N
	ATOM	1184	CA	TYR	B	259	1.345	56.985	74.411	1.00	13.79	B	C
	ATOM	1185	CB	TYR	B	259	1.982	56.013	75.418	1.00	14.27	B	C
	ATOM	1186	CG	TYR	B	259	2.650	56.705	76.595	1.00	17.23	B	C
	ATOM	1187	CD1	TYR	B	259	4.039	56.847	76.650	1.00	16.94	B	C
	ATOM	1188	CE1	TYR	B	259	4.659	57.494	77.731	1.00	19.45	B	C
45	ATOM	1189	CD2	TYR	B	259	1.888	57.228	77.655	1.00	17.03	B	C
	ATOM	1190	CE2	TYR	B	259	2.497	57.878	78.740	1.00	15.09	B	C
	ATOM	1191	CZ	TYR	B	259	3.881	58.011	78.776	1.00	19.31	B	C
	ATOM	1192	OH	TYR	B	259	4.494	58.671	79.832	1.00	18.32	B	O
	ATOM	1193	C	TYR	B	259	2.392	57.967	73.949	1.00	13.03	B	C
50	ATOM	1194	O	TYR	B	259	2.308	59.169	74.247	1.00	13.44	B	O
	ATOM	1195	N	THR	B	260	3.393	57.462	73.232	1.00	13.54	B	N
	ATOM	1196	CA	THR	B	260	4.465	58.329	72.749	1.00	13.84	B	C
	ATOM	1197	CB	THR	B	260	5.554	57.498	72.039	1.00	15.51	B	C
	ATOM	1198	OG1	THR	B	260	4.993	56.797	70.915	1.00	12.29	B	O
55	ATOM	1199	CG2	THR	B	260	6.148	56.498	73.025	1.00	10.48	B	C
	ATOM	1200	C	THR	B	260	3.964	59.463	71.838	1.00	12.84	B	C
	ATOM	1201	O	THR	B	260	4.485	60.572	71.877	1.00	14.68	B	O
	ATOM	1202	N	HIS	B	261	2.954	59.191	71.020	1.00	14.71	B	N
60	ATOM	1203	CA	HIS	B	261	2.403	60.220	70.143	1.00	15.62	B	C
	ATOM	1204	CB	HIS	B	261	1.287	59.625	69.263	1.00	20.73	B	C
	ATOM	1205	CG	HIS	B	261	0.697	60.593	68.276	1.00	23.02	B	C
	ATOM	1206	CD2	HIS	B	261	1.197	61.122	67.134	1.00	21.80	B	C
	ATOM	1207	ND1	HIS	B	261	-0.577	61.111	68.408	1.00	24.83	B	N
	ATOM	1208	CE1	HIS	B	261	-0.837	61.914	67.392	1.00	18.74	B	C
65	ATOM	1209	NE2	HIS	B	261	0.223	61.938	66.606	1.00	25.30	B	N
	ATOM	1210	C	HIS	B	261	1.842	61.369	70.989	1.00	14.91	B	C
	ATOM	1211	O	HIS	B	261	2.057	62.544	70.692	1.00	14.53	B	O
	ATOM	1212	N	ARG	B	262	1.108	61.020	72.040	1.00	14.98	B	N

	ATOM	1213	CA	ARG	B	262	0.520	62.019	72.928	1.00	13.72	B	C
	ATOM	1214	CB	ARG	B	262	-0.386	61.319	73.942	1.00	17.09	B	C
	ATOM	1215	CG	ARG	B	262	-1.485	62.217	74.509	1.00	29.61	B	C
	ATOM	1216	CD	ARG	B	262	-2.187	61.579	75.721	1.00	34.80	B	C
5	ATOM	1217	NE	ARG	B	262	-2.597	60.193	75.464	1.00	41.60	B	N
	ATOM	1218	CZ	ARG	B	262	-2.064	59.132	76.067	1.00	41.50	B	C
	ATOM	1219	NH1	ARG	B	262	-1.097	59.297	76.963	1.00	41.81	B	N
	ATOM	1220	NH2	ARG	B	262	-2.489	57.907	75.777	1.00	41.95	B	N
	ATOM	1221	C	ARG	B	262	1.613	62.852	73.645	1.00	11.81	B	C
10	ATOM	1222	O	ARG	B	262	1.549	64.085	73.682	1.00	10.97	B	O
	ATOM	1223	N	ARG	B	263	2.633	62.186	74.180	1.00	8.73	B	N
	ATOM	1224	CA	ARG	B	263	3.712	62.887	74.858	1.00	8.89	B	C
	ATOM	1225	CB	ARG	B	263	4.711	61.869	75.434	1.00	10.62	B	C
	ATOM	1226	CG	ARG	B	263	4.136	60.894	76.526	1.00	10.39	B	C
15	ATOM	1227	CD	ARG	B	263	3.238	61.574	77.581	1.00	6.46	B	C
	ATOM	1228	NE	ARG	B	263	3.876	62.730	78.213	1.00	6.92	B	N
	ATOM	1229	CZ	ARG	B	263	3.211	63.684	78.859	1.00	9.40	B	C
	ATOM	1230	NH1	ARG	B	263	1.894	63.610	78.962	1.00	6.82	B	N
	ATOM	1231	NH2	ARG	B	263	3.851	64.739	79.357	1.00	8.07	B	N
20	ATOM	1232	C	ARG	B	263	4.436	63.875	73.932	1.00	10.87	B	C
	ATOM	1233	O	ARG	B	263	4.802	64.984	74.347	1.00	12.25	B	O
	ATOM	1234	N	LEU	B	264	4.637	63.488	72.671	1.00	12.91	B	N
	ATOM	1235	CA	LEU	B	264	5.310	64.367	71.705	1.00	11.42	B	C
	ATOM	1236	CB	LEU	B	264	5.598	63.613	70.390	1.00	10.20	B	C
25	ATOM	1237	CG	LEU	B	264	6.703	62.545	70.486	1.00	9.76	B	C
	ATOM	1238	CD1	LEU	B	264	6.613	61.540	69.356	1.00	7.76	B	C
	ATOM	1239	CD2	LEU	B	264	8.052	63.232	70.493	1.00	8.24	B	C
	ATOM	1240	C	LEU	B	264	4.448	65.602	71.443	1.00	11.94	B	C
	ATOM	1241	O	LEU	B	264	4.960	66.717	71.336	1.00	12.91	B	O
30	ATOM	1242	N	LYS	B	265	3.137	65.407	71.352	1.00	12.97	B	N
	ATOM	1243	CA	LYS	B	265	2.225	66.528	71.134	1.00	13.42	B	C
	ATOM	1244	CB	LYS	B	265	0.784	66.029	70.994	1.00	13.38	B	C
	ATOM	1245	CG	LYS	B	265	0.421	65.529	69.599	1.00	22.52	B	C
	ATOM	1246	CD	LYS	B	265	-0.845	64.646	69.612	1.00	26.29	B	C
35	ATOM	1247	CE	LYS	B	265	-2.116	65.430	70.006	1.00	29.29	B	C
	ATOM	1248	NZ	LYS	B	265	-3.327	64.549	70.221	1.00	32.88	B	N
	ATOM	1249	C	LYS	B	265	2.324	67.456	72.338	1.00	12.33	B	C
	ATOM	1250	O	LYS	B	265	2.322	68.680	72.196	1.00	12.85	B	O
	ATOM	1251	N	PHE	B	266	2.413	66.874	73.532	1.00	12.30	B	N
40	ATOM	1252	CA	PHE	B	266	2.516	67.699	74.734	1.00	11.68	B	C
	ATOM	1253	CB	PHE	B	266	2.438	66.833	76.004	1.00	13.22	B	C
	ATOM	1254	CG	PHE	B	266	2.622	67.626	77.289	1.00	15.01	B	C
	ATOM	1255	CD1	PHE	B	266	1.578	68.396	77.801	1.00	11.85	B	C
	ATOM	1256	CD2	PHE	B	266	3.860	67.656	77.941	1.00	14.02	B	C
45	ATOM	1257	CE1	PHE	B	266	1.760	69.190	78.934	1.00	11.78	B	C
	ATOM	1258	CE2	PHE	B	266	4.049	68.452	79.081	1.00	17.23	B	C
	ATOM	1259	CZ	PHE	B	266	2.994	69.221	79.576	1.00	11.34	B	C
	ATOM	1260	C	PHE	B	266	3.818	68.492	74.719	1.00	9.33	B	C
	ATOM	1261	O	PHE	B	266	3.833	69.688	74.991	1.00	12.92	B	O
50	ATOM	1262	N	LEU	B	267	4.915	67.825	74.395	1.00	10.12	B	N
	ATOM	1263	CA	LEU	B	267	6.218	68.481	74.341	1.00	10.07	B	C
	ATOM	1264	CB	LEU	B	267	7.256	67.505	73.803	1.00	11.29	B	C
	ATOM	1265	CG	LEU	B	267	8.300	66.842	74.710	1.00	15.70	B	C
	ATOM	1266	CD1	LEU	B	267	7.953	67.016	76.155	1.00	12.23	B	C
55	ATOM	1267	CD2	LEU	B	267	8.396	65.377	74.360	1.00	9.24	B	C
	ATOM	1268	C	LEU	B	267	6.159	69.705	73.426	1.00	12.43	B	C
	ATOM	1269	O	LEU	B	267	6.731	70.766	73.723	1.00	10.09	B	O
	ATOM	1270	N	SER	B	268	5.459	69.547	72.305	1.00	11.56	B	N
	ATOM	1271	CA	SER	B	268	5.303	70.617	71.316	1.00	9.65	B	C
60	ATOM	1272	CB	SER	B	268	4.637	70.049	70.060	1.00	7.32	B	C
	ATOM	1273	OG	SER	B	268	4.249	71.073	69.169	1.00	12.01	B	O
	ATOM	1274	C	SER	B	268	4.473	71.783	71.866	1.00	8.84	B	C
	ATOM	1275	O	SER	B	268	4.910	72.926	71.829	1.00	11.31	B	O
	ATOM	1276	N	SER	B	269	3.279	71.504	72.375	1.00	8.37	B	N
65	ATOM	1277	CA	SER	B	269	2.434	72.567	72.925	1.00	9.27	B	C
	ATOM	1278	CB	SER	B	269	1.088	72.007	73.339	1.00	8.90	B	C
	ATOM	1279	OG	SER	B	269	0.386	71.512	72.221	1.00	13.37	B	O
	ATOM	1280	C	SER	B	269	3.073	73.250	74.126	1.00	9.46	B	C

	ATOM	1281	O	SER	B	269	3.016	74.479	74.257	1.00	9.30	B	O
	ATOM	1282	N	LYS	B	270	3.684	72.460	75.007	1.00	9.74	B	N
	ATOM	1283	CA	LYS	B	270	4.330	73.038	76.189	1.00	12.13	B	C
	ATOM	1284	CB	LYS	B	270	5.017	71.955	77.057	1.00	10.45	B	C
5	ATOM	1285	CG	LYS	B	270	5.269	72.432	78.507	1.00	12.17	B	C
	ATOM	1286	CD	LYS	B	270	6.236	71.558	79.290	1.00	8.79	B	C
	ATOM	1287	CE	LYS	B	270	6.661	72.262	80.588	1.00	14.36	B	C
	ATOM	1288	NZ	LYS	B	270	7.814	71.583	81.302	1.00	12.58	B	N
	ATOM	1289	C	LYS	B	270	5.353	74.092	75.780	1.00	10.92	B	C
10	ATOM	1290	O	LYS	B	270	5.420	75.168	76.383	1.00	11.75	B	O
	ATOM	1291	N	PHE	B	271	6.143	73.800	74.746	1.00	11.54	B	N
	ATOM	1292	CA	PHE	B	271	7.134	74.772	74.300	1.00	10.81	B	C
	ATOM	1293	CB	PHE	B	271	8.045	74.199	73.215	1.00	11.56	B	C
	ATOM	1294	CG	PHE	B	271	9.160	75.123	72.832	1.00	9.60	B	C
15	ATOM	1295	CD1	PHE	B	271	10.296	75.230	73.631	1.00	11.09	B	C
	ATOM	1296	CD2	PHE	B	271	9.058	75.931	71.703	1.00	10.27	B	C
	ATOM	1297	CE1	PHE	B	271	11.317	76.134	73.317	1.00	9.95	B	C
	ATOM	1298	CE2	PHE	B	271	10.072	76.838	71.379	1.00	10.62	B	C
	ATOM	1299	CZ	PHE	B	271	11.208	76.940	72.195	1.00	10.93	B	C
20	ATOM	1300	C	PHE	B	271	6.471	76.020	73.772	1.00	10.48	B	C
	ATOM	1301	O	PHE	B	271	6.975	77.118	73.982	1.00	12.41	B	O
	ATOM	1302	N	GLN	B	272	5.339	75.857	73.091	1.00	13.85	B	N
	ATOM	1303	CA	GLN	B	272	4.628	77.012	72.544	1.00	16.09	B	C
	ATOM	1304	CB	GLN	B	272	3.417	76.564	71.737	1.00	17.26	B	C
25	ATOM	1305	CG	GLN	B	272	3.585	76.801	70.252	1.00	28.51	B	C
	ATOM	1306	CD	GLN	B	272	3.959	75.541	69.516	1.00	33.55	B	C
	ATOM	1307	OE1	GLN	B	272	3.089	74.827	69.008	1.00	36.96	B	O
	ATOM	1308	NE2	GLN	B	272	5.258	75.247	69.457	1.00	35.60	B	N
	ATOM	1309	C	GLN	B	272	4.188	77.946	73.666	1.00	14.02	B	C
30	ATOM	1310	O	GLN	B	272	4.337	79.160	73.576	1.00	11.67	B	O
	ATOM	1311	N	VAL	B	273	3.636	77.374	74.730	1.00	13.61	B	N
	ATOM	1312	CA	VAL	B	273	3.227	78.197	75.859	1.00	10.93	B	C
	ATOM	1313	CB	VAL	B	273	2.450	77.379	76.890	1.00	10.67	B	C
	ATOM	1314	CG1	VAL	B	273	2.106	78.248	78.087	1.00	11.99	B	C
35	ATOM	1315	CG2	VAL	B	273	1.182	76.830	76.242	1.00	12.09	B	C
	ATOM	1316	C	VAL	B	273	4.451	78.805	76.529	1.00	9.87	B	C
	ATOM	1317	O	VAL	B	273	4.438	79.980	76.877	1.00	10.91	B	O
	ATOM	1318	N	HIS	B	274	5.513	78.015	76.710	1.00	10.28	B	N
	ATOM	1319	CA	HIS	B	274	6.726	78.547	77.328	1.00	11.54	B	C
40	ATOM	1320	CB	HIS	B	274	7.834	77.500	77.382	1.00	11.48	B	C
	ATOM	1321	CG	HIS	B	274	9.175	78.067	77.754	1.00	12.27	B	C
	ATOM	1322	CD2	HIS	B	274	10.282	78.303	77.011	1.00	13.25	B	C
	ATOM	1323	ND1	HIS	B	274	9.497	78.440	79.042	1.00	14.08	B	N
	ATOM	1324	CE1	HIS	B	274	10.744	78.878	79.077	1.00	12.79	B	C
45	ATOM	1325	NE2	HIS	B	274	11.243	78.805	77.856	1.00	11.95	B	N
	ATOM	1326	C	HIS	B	274	7.267	79.750	76.570	1.00	13.23	B	C
	ATOM	1327	O	HIS	B	274	7.598	80.784	77.171	1.00	15.08	B	O
	ATOM	1328	N	GLN	B	275	7.369	79.620	75.253	1.00	13.07	B	N
	ATOM	1329	CA	GLN	B	275	7.895	80.707	74.433	1.00	16.31	B	C
50	ATOM	1330	CB	GLN	B	275	8.083	80.249	72.978	1.00	21.18	B	C
	ATOM	1331	CG	GLN	B	275	9.543	80.299	72.527	1.00	33.69	B	C
	ATOM	1332	CD	GLN	B	275	9.717	80.445	71.003	1.00	40.11	B	C
	ATOM	1333	OE1	GLN	B	275	8.737	80.416	70.234	1.00	39.47	B	O
	ATOM	1334	NE2	GLN	B	275	10.978	80.607	70.563	1.00	36.77	B	N
55	ATOM	1335	C	GLN	B	275	7.065	81.975	74.446	1.00	11.88	B	C
	ATOM	1336	O	GLN	B	275	7.597	83.069	74.563	1.00	13.15	B	O
	ATOM	1337	N	MET	B	276	5.759	81.842	74.313	1.00	12.94	B	N
	ATOM	1338	CA	MET	B	276	4.941	83.029	74.297	1.00	15.98	B	C
	ATOM	1339	CB	MET	B	276	3.505	82.688	73.885	1.00	14.65	B	C
60	ATOM	1340	CG	MET	B	276	2.670	82.045	74.947	1.00	17.61	B	C
	ATOM	1341	SD	MET	B	276	1.000	81.688	74.326	1.00	25.35	B	S
	ATOM	1342	CE	MET	B	276	1.252	80.177	73.346	1.00	25.36	B	C
	ATOM	1343	C	MET	B	276	4.970	83.732	75.649	1.00	17.51	B	C
	ATOM	1344	O	MET	B	276	4.971	84.960	75.707	1.00	19.55	B	O
65	ATOM	1345	N	LEU	B	277	5.024	82.959	76.730	1.00	15.30	B	N
	ATOM	1346	CA	LEU	B	277	5.045	83.522	78.069	1.00	15.00	B	C
	ATOM	1347	CB	LEU	B	277	4.566	82.461	79.074	1.00	17.29	B	C
	ATOM	1348	CG	LEU	B	277	3.155	82.491	79.672	1.00	18.72	B	C

	ATOM	1349	CD1	LEU	B	277	2.191	83.238	78.775	1.00	16.76	B	C
	ATOM	1350	CD2	LEU	B	277	2.692	81.069	79.889	1.00	17.53	B	C
	ATOM	1351	C	LEU	B	277	6.416	84.045	78.518	1.00	15.32	B	C
5	ATOM	1352	O	LEU	B	277	6.492	85.082	79.179	1.00	12.35	B	O
	ATOM	1353	N	ASN	B	278	7.491	83.349	78.129	1.00	14.93	B	N
	ATOM	1354	CA	ASN	B	278	8.844	83.696	78.572	1.00	11.99	B	C
	ATOM	1355	CB	ASN	B	278	9.410	82.523	79.382	1.00	13.11	B	C
	ATOM	1356	CG	ASN	B	278	8.460	82.052	80.466	1.00	12.00	B	C
10	ATOM	1357	OD1	ASN	B	278	8.016	80.902	80.466	1.00	13.34	B	O
	ATOM	1358	ND2	ASN	B	278	8.138	82.940	81.389	1.00	5.56	B	N
	ATOM	1359	C	ASN	B	278	9.932	84.141	77.599	1.00	13.02	B	C
	ATOM	1360	O	ASN	B	278	11.064	84.404	78.034	1.00	9.80	B	O
	ATOM	1361	N	GLU	B	279	9.634	84.238	76.307	1.00	12.90	B	N
15	ATOM	1362	CA	GLU	B	279	10.673	84.630	75.348	1.00	15.99	B	C
	ATOM	1363	CB	GLU	B	279	10.120	84.601	73.929	1.00	16.04	B	C
	ATOM	1364	CG	GLU	B	279	8.995	85.579	73.705	1.00	20.09	B	C
	ATOM	1365	CD	GLU	B	279	8.436	85.499	72.303	1.00	27.76	B	C
	ATOM	1366	OE1	GLU	B	279	9.215	85.180	71.372	1.00	30.42	B	O
20	ATOM	1367	OE2	GLU	B	279	7.220	85.750	72.128	1.00	29.80	B	O
	ATOM	1368	C	GLU	B	279	11.298	85.997	75.637	1.00	14.89	B	C
	ATOM	1369	O	GLU	B	279	12.488	86.197	75.420	1.00	16.64	B	O
	ATOM	1370	N	MET	B	280	10.512	86.945	76.127	1.00	16.50	B	N
	ATOM	1371	CA	MET	B	280	11.070	88.261	76.442	1.00	16.73	B	C
25	ATOM	1372	CB	MET	B	280	9.944	89.249	76.758	1.00	22.06	B	C
	ATOM	1373	CG	MET	B	280	9.242	89.810	75.511	1.00	32.17	B	C
	ATOM	1374	SD	MET	B	280	10.337	89.999	74.019	1.00	45.85	B	S
	ATOM	1375	CE	MET	B	280	11.072	91.659	74.353	1.00	35.95	B	C
	ATOM	1376	C	MET	B	280	12.023	88.138	77.631	1.00	15.82	B	C
30	ATOM	1377	O	MET	B	280	12.992	88.883	77.750	1.00	14.45	B	O
	ATOM	1378	N	ASP	B	281	11.757	87.165	78.492	1.00	14.04	B	N
	ATOM	1379	CA	ASP	B	281	12.584	86.935	79.668	1.00	15.98	B	C
	ATOM	1380	CB	ASP	B	281	11.804	86.089	80.671	1.00	16.45	B	C
	ATOM	1381	CG	ASP	B	281	10.583	86.822	81.193	1.00	25.39	B	C
35	ATOM	1382	OD1	ASP	B	281	9.456	86.585	80.674	1.00	24.64	B	O
	ATOM	1383	OD2	ASP	B	281	10.768	87.656	82.109	1.00	25.90	B	O
	ATOM	1384	C	ASP	B	281	13.896	86.274	79.285	1.00	14.72	B	C
	ATOM	1385	O	ASP	B	281	14.946	86.606	79.830	1.00	13.64	B	O
	ATOM	1386	N	GLU	B	282	13.830	85.331	78.348	1.00	13.89	B	N
40	ATOM	1387	CA	GLU	B	282	15.031	84.668	77.866	1.00	11.41	B	C
	ATOM	1388	CB	GLU	B	282	14.652	83.548	76.904	1.00	10.00	B	C
	ATOM	1389	CG	GLU	B	282	14.039	82.349	77.596	1.00	9.60	B	C
	ATOM	1390	CD	GLU	B	282	13.572	81.293	76.620	1.00	13.82	B	C
	ATOM	1391	OE1	GLU	B	282	13.219	81.670	75.482	1.00	14.51	B	O
45	ATOM	1392	OE2	GLU	B	282	13.552	80.095	76.981	1.00	12.52	B	O
	ATOM	1393	C	GLU	B	282	15.876	85.737	77.155	1.00	12.23	B	C
	ATOM	1394	O	GLU	B	282	17.085	85.819	77.349	1.00	15.36	B	O
	ATOM	1395	N	LEU	B	283	15.237	86.579	76.350	1.00	12.30	B	N
	ATOM	1396	CA	LEU	B	283	15.961	87.643	75.650	1.00	13.04	B	C
50	ATOM	1397	CB	LEU	B	283	14.981	88.479	74.808	1.00	11.80	B	C
	ATOM	1398	CG	LEU	B	283	15.405	89.142	73.485	1.00	16.57	B	C
	ATOM	1399	CD1	LEU	B	283	14.682	90.473	73.355	1.00	14.57	B	C
	ATOM	1400	CD2	LEU	B	283	16.916	89.319	73.389	1.00	12.44	B	C
	ATOM	1401	C	LEU	B	283	16.685	88.566	76.641	1.00	13.94	B	C
55	ATOM	1402	O	LEU	B	283	17.815	89.014	76.398	1.00	14.23	B	O
	ATOM	1403	N	LYS	B	284	16.020	88.871	77.751	1.00	16.15	B	N
	ATOM	1404	CA	LYS	B	284	16.603	89.748	78.765	1.00	16.25	B	C
	ATOM	1405	CB	LYS	B	284	15.637	89.908	79.940	1.00	19.75	B	C
	ATOM	1406	CG	LYS	B	284	16.038	91.009	80.924	1.00	24.99	B	C
60	ATOM	1407	CD	LYS	B	284	15.239	90.894	82.218	1.00	28.89	B	C
	ATOM	1408	CE	LYS	B	284	15.650	91.962	83.221	1.00	35.30	B	C
	ATOM	1409	NZ	LYS	B	284	14.459	92.569	83.892	1.00	41.64	B	N
	ATOM	1410	C	LYS	B	284	17.943	89.222	79.261	1.00	14.45	B	C
	ATOM	1411	O	LYS	B	284	18.905	89.987	79.423	1.00	13.94	B	O
65	ATOM	1412	N	GLU	B	285	17.999	87.914	79.504	1.00	13.34	B	N
	ATOM	1413	CA	GLU	B	285	19.227	87.289	79.964	1.00	12.06	B	C
	ATOM	1414	CB	GLU	B	285	19.043	85.782	80.110	1.00	10.55	B	C
	ATOM	1415	CG	GLU	B	285	18.254	85.331	81.311	1.00	14.97	B	C
	ATOM	1416	CD	GLU	B	285	18.432	83.844	81.579	1.00	17.51	B	C

	ATOM	1417	OE1	GLU	B	285	19.574	83.425	81.904	1.00	15.62	B	O
	ATOM	1418	OE2	GLU	B	285	17.428	83.094	81.461	1.00	19.51	B	O
	ATOM	1419	C	GLU	B	285	20.333	87.546	78.943	1.00	13.57	B	C
	ATOM	1420	O	GLU	B	285	21.457	87.897	79.313	1.00	11.42	B	O
5	ATOM	1421	N	LEU	B	286	20.013	87.364	77.657	1.00	13.16	B	N
	ATOM	1422	CA	LEU	B	286	21.007	87.554	76.589	1.00	16.32	B	C
	ATOM	1423	CB	LEU	B	286	20.464	87.088	75.224	1.00	13.35	B	C
	ATOM	1424	CG	LEU	B	286	19.895	85.675	74.943	1.00	16.74	B	C
10	ATOM	1425	CD1	LEU	B	286	20.513	85.163	73.653	1.00	16.07	B	C
	ATOM	1426	CD2	LEU	B	286	20.127	84.692	76.064	1.00	10.87	B	C
	ATOM	1427	C	LEU	B	286	21.450	89.012	76.485	1.00	15.69	B	C
	ATOM	1428	O	LEU	B	286	22.647	89.302	76.374	1.00	16.09	B	O
	ATOM	1429	N	LYS	B	287	20.492	89.934	76.520	1.00	17.03	B	N
	ATOM	1430	CA	LYS	B	287	20.835	91.348	76.446	1.00	18.53	B	C
15	ATOM	1431	CB	LYS	B	287	19.586	92.213	76.471	1.00	16.64	B	C
	ATOM	1432	CG	LYS	B	287	18.841	92.244	75.166	1.00	18.22	B	C
	ATOM	1433	CD	LYS	B	287	17.381	92.562	75.415	1.00	19.40	B	C
	ATOM	1434	CE	LYS	B	287	16.932	93.764	74.618	1.00	24.02	B	C
	ATOM	1435	NZ	LYS	B	287	15.451	93.775	74.439	1.00	26.66	B	N
20	ATOM	1436	C	LYS	B	287	21.717	91.715	77.623	1.00	20.30	B	C
	ATOM	1437	O	LYS	B	287	22.653	92.493	77.476	1.00	20.29	B	O
	ATOM	1438	N	ASN	B	288	21.430	91.133	78.787	1.00	22.30	B	N
	ATOM	1439	CA	ASN	B	288	22.208	91.416	79.993	1.00	22.55	B	C
	ATOM	1440	CB	ASN	B	288	21.345	91.192	81.236	1.00	21.97	B	C
25	ATOM	1441	CG	ASN	B	288	20.293	92.276	81.404	1.00	25.95	B	C
	ATOM	1442	OD1	ASN	B	288	20.548	93.452	81.133	1.00	26.28	B	O
	ATOM	1443	ND2	ASN	B	288	19.110	91.889	81.847	1.00	28.18	B	N
	ATOM	1444	C	ASN	B	288	23.502	90.619	80.106	1.00	23.71	B	C
	ATOM	1445	O	ASN	B	288	24.208	90.729	81.101	1.00	23.78	B	O
30	ATOM	1446	N	ASN	B	289	23.800	89.819	79.085	1.00	21.88	B	N
	ATOM	1447	CA	ASN	B	289	25.016	89.016	79.034	1.00	22.18	B	C
	ATOM	1448	CB	ASN	B	289	24.703	87.639	78.447	1.00	14.18	B	C
	ATOM	1449	CG	ASN	B	289	25.899	86.735	78.434	1.00	14.88	B	C
	ATOM	1450	OD1	ASN	B	289	26.677	86.723	79.369	1.00	15.70	B	O
35	ATOM	1451	ND2	ASN	B	289	26.056	85.965	77.370	1.00	13.18	B	N
	ATOM	1452	C	ASN	B	289	25.977	89.775	78.112	1.00	26.52	B	C
	ATOM	1453	O	ASN	B	289	25.964	89.581	76.894	1.00	29.87	B	O
	ATOM	1454	N	PRO	B	290	26.826	90.650	78.676	1.00	27.98	B	N
	ATOM	1455	CD	PRO	B	290	26.976	90.946	80.112	1.00	27.28	B	C
40	ATOM	1456	CA	PRO	B	290	27.769	91.426	77.856	1.00	26.94	B	C
	ATOM	1457	CB	PRO	B	290	28.273	92.488	78.821	1.00	29.73	B	C
	ATOM	1458	CG	PRO	B	290	28.227	91.780	80.163	1.00	28.64	B	C
	ATOM	1459	C	PRO	B	290	28.919	90.638	77.229	1.00	26.62	B	C
	ATOM	1460	O	PRO	B	290	29.540	91.083	76.266	1.00	26.61	B	O
45	ATOM	1461	N	HIS	B	291	29.201	89.465	77.773	1.00	29.45	B	N
	ATOM	1462	CA	HIS	B	291	30.296	88.645	77.273	1.00	34.40	B	C
	ATOM	1463	CB	HIS	B	291	30.590	87.516	78.268	1.00	37.29	B	C
	ATOM	1464	CG	HIS	B	291	30.936	88.011	79.634	1.00	45.03	B	C
	ATOM	1465	CD2	HIS	B	291	32.128	88.345	80.186	1.00	47.39	B	C
50	ATOM	1466	ND1	HIS	B	291	29.977	88.307	80.579	1.00	46.16	B	N
	ATOM	1467	CE1	HIS	B	291	30.564	88.805	81.654	1.00	49.14	B	C
	ATOM	1468	NE2	HIS	B	291	31.868	88.839	81.442	1.00	49.16	B	N
	ATOM	1469	C	HIS	B	291	30.051	88.038	75.904	1.00	35.25	B	C
	ATOM	1470	O	HIS	B	291	30.983	87.558	75.263	1.00	37.59	B	O
55	ATOM	1471	N	ARG	B	292	28.814	88.081	75.427	1.00	31.87	B	N
	ATOM	1472	CA	ARG	B	292	28.552	87.422	74.177	1.00	25.67	B	C
	ATOM	1473	CB	ARG	B	292	28.582	85.906	74.434	1.00	25.63	B	C
	ATOM	1474	CG	ARG	B	292	29.652	85.189	73.668	1.00	27.69	B	C
	ATOM	1475	CD	ARG	B	292	30.094	83.969	74.368	1.00	26.60	B	C
60	ATOM	1476	NE	ARG	B	292	31.284	84.189	75.176	1.00	25.02	B	N
	ATOM	1477	CZ	ARG	B	292	32.531	84.241	74.711	1.00	25.24	B	C
	ATOM	1478	NH1	ARG	B	292	32.802	84.101	73.415	1.00	25.50	B	N
	ATOM	1479	NH2	ARG	B	292	33.528	84.373	75.566	1.00	22.65	B	N
	ATOM	1480	C	ARG	B	292	27.267	87.744	73.451	1.00	22.75	B	C
65	ATOM	1481	O	ARG	B	292	26.303	88.296	74.013	1.00	21.04	B	O
	ATOM	1482	N	ASP	B	293	27.291	87.392	72.168	1.00	20.04	B	N
	ATOM	1483	CA	ASP	B	293	26.126	87.469	71.302	1.00	19.09	B	C
	ATOM	1484	CB	ASP	B	293	25.940	88.838	70.609	1.00	15.21	B	C

	ATOM	1485	CG	ASP	B	293	27.075	89.232	69.716	1.00	17.42	B	C
	ATOM	1486	OD1	ASP	B	293	27.192	90.456	69.514	1.00	16.90	B	O
	ATOM	1487	OD2	ASP	B	293	27.829	88.372	69.210	1.00	16.64	B	O
5	ATOM	1488	C	ASP	B	293	26.301	86.309	70.334	1.00	17.82	B	C
	ATOM	1489	O	ASP	B	293	27.266	85.560	70.450	1.00	17.10	B	O
	ATOM	1490	N	PHE	B	294	25.365	86.111	69.420	1.00	19.40	B	N
	ATOM	1491	CA	PHE	B	294	25.477	84.986	68.504	1.00	17.59	B	C
	ATOM	1492	CB	PHE	B	294	24.365	85.028	67.463	1.00	15.57	B	C
10	ATOM	1493	CG	PHE	B	294	24.422	83.890	66.475	1.00	20.18	B	C
	ATOM	1494	CD1	PHE	B	294	23.976	82.615	66.837	1.00	18.59	B	C
	ATOM	1495	CD2	PHE	B	294	24.919	84.085	65.184	1.00	18.47	B	C
	ATOM	1496	CE1	PHE	B	294	24.020	81.539	65.934	1.00	18.43	B	C
	ATOM	1497	CE2	PHE	B	294	24.969	83.015	64.265	1.00	21.32	B	C
15	ATOM	1498	CZ	PHE	B	294	24.517	81.737	64.646	1.00	19.54	B	C
	ATOM	1499	C	PHE	B	294	26.810	84.935	67.793	1.00	18.54	B	C
	ATOM	1500	O	PHE	B	294	27.374	83.858	67.599	1.00	19.18	B	O
	ATOM	1501	N	TYR	B	295	27.329	86.105	67.432	1.00	18.45	B	N
	ATOM	1502	CA	TYR	B	295	28.571	86.170	66.680	1.00	18.69	B	C
20	ATOM	1503	CB	TYR	B	295	28.695	87.552	66.045	1.00	17.28	B	C
	ATOM	1504	CG	TYR	B	295	27.535	87.790	65.109	1.00	18.41	B	C
	ATOM	1505	CD1	TYR	B	295	27.481	87.156	63.865	1.00	19.13	B	C
	ATOM	1506	CE1	TYR	B	295	26.368	87.296	63.032	1.00	18.09	B	C
	ATOM	1507	CD2	TYR	B	295	26.444	88.576	65.498	1.00	16.67	B	C
25	ATOM	1508	CE2	TYR	B	295	25.326	88.724	64.671	1.00	19.02	B	C
	ATOM	1509	CZ	TYR	B	295	25.300	88.079	63.439	1.00	21.92	B	C
	ATOM	1510	OH	TYR	B	295	24.218	88.237	62.600	1.00	26.20	B	O
	ATOM	1511	C	TYR	B	295	29.869	85.737	67.337	1.00	20.01	B	C
	ATOM	1512	O	TYR	B	295	30.856	85.524	66.643	1.00	22.94	B	O
30	ATOM	1513	N	ASN	B	296	29.916	85.602	68.654	1.00	17.22	B	N
	ATOM	1514	CA	ASN	B	296	31.159	85.099	69.214	1.00	14.38	B	C
	ATOM	1515	CB	ASN	B	296	31.950	86.168	69.981	1.00	14.89	B	C
	ATOM	1516	CG	ASN	B	296	31.165	86.829	71.076	1.00	14.57	B	C
	ATOM	1517	OD1	ASN	B	296	31.733	87.582	71.857	1.00	20.46	B	O
35	ATOM	1518	ND2	ASN	B	296	29.869	86.571	71.143	1.00	14.45	B	N
	ATOM	1519	C	ASN	B	296	30.948	83.851	70.052	1.00	15.41	B	C
	ATOM	1520	O	ASN	B	296	31.691	83.581	70.998	1.00	16.11	B	O
	ATOM	1521	N	CYS	B	297	29.917	83.097	69.669	1.00	14.78	B	N
	ATOM	1522	CA	CYS	B	297	29.576	81.802	70.258	1.00	16.64	B	C
40	ATOM	1523	CB	CYS	B	297	28.060	81.565	70.249	1.00	18.56	B	C
	ATOM	1524	SG	CYS	B	297	27.156	82.468	71.503	1.00	29.65	B	S
	ATOM	1525	C	CYS	B	297	30.183	80.841	69.242	1.00	15.45	B	C
	ATOM	1526	O	CYS	B	297	30.214	81.158	68.055	1.00	16.54	B	O
	ATOM	1527	N	ARG	B	298	30.662	79.684	69.676	1.00	14.55	B	N
45	ATOM	1528	CA	ARG	B	298	31.209	78.740	68.716	1.00	14.11	B	C
	ATOM	1529	CB	ARG	B	298	32.192	77.798	69.399	1.00	13.57	B	C
	ATOM	1530	CG	ARG	B	298	33.609	78.300	69.390	1.00	12.00	B	C
	ATOM	1531	CD	ARG	B	298	33.776	79.427	70.376	1.00	13.19	B	C
	ATOM	1532	NE	ARG	B	298	35.159	79.885	70.414	1.00	15.32	B	N
50	ATOM	1533	CZ	ARG	B	298	35.633	80.792	71.272	1.00	19.69	B	C
	ATOM	1534	NH1	ARG	B	298	34.835	81.347	72.179	1.00	16.88	B	N
	ATOM	1535	NH2	ARG	B	298	36.908	81.165	71.210	1.00	19.63	B	N
	ATOM	1536	C	ARG	B	298	30.062	77.939	68.099	1.00	16.10	B	C
	ATOM	1537	O	ARG	B	298	29.067	77.638	68.772	1.00	15.10	B	O
55	ATOM	1538	N	LYS	B	299	30.202	77.619	66.812	1.00	17.64	B	N
	ATOM	1539	CA	LYS	B	299	29.210	76.832	66.054	1.00	15.16	B	C
	ATOM	1540	CB	LYS	B	299	28.519	77.685	64.999	1.00	13.54	B	C
	ATOM	1541	CG	LYS	B	299	27.339	78.459	65.495	1.00	17.14	B	C
	ATOM	1542	CD	LYS	B	299	27.790	79.720	66.168	1.00	17.57	B	C
60	ATOM	1543	CE	LYS	B	299	27.959	80.852	65.182	1.00	16.81	B	C
	ATOM	1544	NZ	LYS	B	299	28.729	81.968	65.798	1.00	11.59	B	N
	ATOM	1545	C	LYS	B	299	30.014	75.771	65.339	1.00	13.06	B	C
	ATOM	1546	O	LYS	B	299	31.060	76.073	64.787	1.00	12.48	B	O
	ATOM	1547	N	VAL	B	300	29.542	74.536	65.341	1.00	10.09	B	N
65	ATOM	1548	CA	VAL	B	300	30.285	73.481	64.684	1.00	9.46	B	C
	ATOM	1549	CB	VAL	B	300	30.695	72.401	65.689	1.00	9.39	B	C
	ATOM	1550	CG1	VAL	B	300	31.561	71.332	65.003	1.00	9.20	B	C
	ATOM	1551	CG2	VAL	B	300	31.436	73.049	66.851	1.00	7.18	B	C
	ATOM	1552	C	VAL	B	300	29.451	72.849	63.578	1.00	13.62	B	C

	ATOM	1553	O	VAL	B	300	28.249	72.600	63.767	1.00	12.02	B	O
	ATOM	1554	N	ASP	B	301	30.080	72.627	62.415	1.00	13.02	B	N
	ATOM	1555	CA	ASP	B	301	29.405	71.985	61.278	1.00	12.19	B	C
	ATOM	1556	CB	ASP	B	301	30.061	72.386	59.955	1.00	12.54	B	C
5	ATOM	1557	CG	ASP	B	301	29.171	72.120	58.753	1.00	12.73	B	C
	ATOM	1558	OD1	ASP	B	301	29.415	72.766	57.711	1.00	15.82	B	O
	ATOM	1559	OD2	ASP	B	301	28.247	71.273	58.830	1.00	10.85	B	O
	ATOM	1560	C	ASP	B	301	29.607	70.506	61.550	1.00	10.50	B	C
10	ATOM	1561	O	ASP	B	301	30.640	69.928	61.213	1.00	7.96	B	O
	ATOM	1562	N	THR	B	302	28.597	69.914	62.176	1.00	10.19	B	N
	ATOM	1563	CA	THR	B	302	28.627	68.529	62.607	1.00	11.69	B	C
	ATOM	1564	CB	THR	B	302	27.601	68.358	63.719	1.00	9.65	B	C
	ATOM	1565	OG1	THR	B	302	26.378	68.980	63.303	1.00	14.01	B	O
	ATOM	1566	CG2	THR	B	302	28.078	69.052	64.992	1.00	6.67	B	C
15	ATOM	1567	C	THR	B	302	28.401	67.459	61.530	1.00	15.35	B	C
	ATOM	1568	O	THR	B	302	28.507	66.253	61.804	1.00	14.47	B	O
	ATOM	1569	N	HIS	B	303	28.072	67.890	60.320	1.00	13.71	B	N
	ATOM	1570	CA	HIS	B	303	27.841	66.959	59.223	1.00	13.71	B	C
	ATOM	1571	CB	HIS	B	303	26.367	66.545	59.185	1.00	14.45	B	C
20	ATOM	1572	CG	HIS	B	303	25.927	66.015	57.852	1.00	19.48	B	C
	ATOM	1573	CD2	HIS	B	303	26.504	65.118	57.015	1.00	16.09	B	C
	ATOM	1574	ND1	HIS	B	303	24.747	66.403	57.247	1.00	17.77	B	N
	ATOM	1575	CE1	HIS	B	303	24.618	65.765	56.099	1.00	14.41	B	C
	ATOM	1576	NE2	HIS	B	303	25.669	64.981	55.934	1.00	20.34	B	N
25	ATOM	1577	C	HIS	B	303	28.244	67.651	57.921	1.00	13.37	B	C
	ATOM	1578	O	HIS	B	303	27.484	68.450	57.365	1.00	11.94	B	O
	ATOM	1579	N	ILE	B	304	29.462	67.357	57.467	1.00	13.51	B	N
	ATOM	1580	CA	ILE	B	304	30.007	67.941	56.249	1.00	13.95	B	C
	ATOM	1581	CB	ILE	B	304	30.689	69.309	56.537	1.00	11.85	B	C
30	ATOM	1582	CG2	ILE	B	304	31.673	69.170	57.673	1.00	9.16	B	C
	ATOM	1583	CG1	ILE	B	304	31.370	69.829	55.272	1.00	10.83	B	C
	ATOM	1584	CD1	ILE	B	304	31.796	71.261	55.343	1.00	13.66	B	C
	ATOM	1585	C	ILE	B	304	31.026	66.983	55.629	1.00	15.96	B	C
	ATOM	1586	O	ILE	B	304	31.845	66.403	56.340	1.00	15.49	B	O
35	ATOM	1587	N	HIS	B	305	30.951	66.816	54.301	1.00	17.25	B	N
	ATOM	1588	CA	HIS	B	305	31.844	65.925	53.541	1.00	12.57	B	C
	ATOM	1589	CB	HIS	B	305	31.049	65.236	52.421	1.00	12.56	B	C
	ATOM	1590	CG	HIS	B	305	29.808	64.540	52.901	1.00	11.01	B	C
	ATOM	1591	CD2	HIS	B	305	28.547	64.997	53.106	1.00	14.58	B	C
40	ATOM	1592	ND1	HIS	B	305	29.791	63.212	53.270	1.00	12.20	B	N
	ATOM	1593	CE1	HIS	B	305	28.580	62.879	53.683	1.00	9.11	B	C
	ATOM	1594	NE2	HIS	B	305	27.804	63.946	53.594	1.00	9.14	B	N
	ATOM	1595	C	HIS	B	305	33.013	66.732	52.963	1.00	11.92	B	C
	ATOM	1596	O	HIS	B	305	32.818	67.765	52.334	1.00	14.76	B	O
45	ATOM	1597	N	ALA	B	306	34.230	66.259	53.195	1.00	13.16	B	N
	ATOM	1598	CA	ALA	B	306	35.447	66.934	52.743	1.00	13.59	B	C
	ATOM	1599	CB	ALA	B	306	36.679	66.106	53.151	1.00	13.69	B	C
	ATOM	1600	C	ALA	B	306	35.496	67.222	51.247	1.00	13.79	B	C
	ATOM	1601	O	ALA	B	306	35.940	68.287	50.823	1.00	13.34	B	O
50	ATOM	1602	N	ALA	B	307	35.047	66.266	50.448	1.00	15.92	B	N
	ATOM	1603	CA	ALA	B	307	35.058	66.421	48.994	1.00	16.18	B	C
	ATOM	1604	CB	ALA	B	307	34.642	65.125	48.339	1.00	11.38	B	C
	ATOM	1605	C	ALA	B	307	34.151	67.560	48.526	1.00	18.54	B	C
	ATOM	1606	O	ALA	B	307	34.166	67.911	47.347	1.00	21.77	B	O
55	ATOM	1607	N	ALA	B	308	33.373	68.147	49.442	1.00	19.81	B	N
	ATOM	1608	CA	ALA	B	308	32.473	69.242	49.080	1.00	17.29	B	C
	ATOM	1609	CB	ALA	B	308	31.059	68.724	48.942	1.00	19.33	B	C
	ATOM	1610	C	ALA	B	308	32.487	70.383	50.076	1.00	17.64	B	C
	ATOM	1611	O	ALA	B	308	31.580	71.220	50.076	1.00	18.39	B	O
60	ATOM	1612	N	CYS	B	309	33.514	70.444	50.912	1.00	16.75	B	N
	ATOM	1613	CA	CYS	B	309	33.570	71.493	51.925	1.00	18.53	B	C
	ATOM	1614	CB	CYS	B	309	34.591	71.133	53.006	1.00	18.68	B	C
	ATOM	1615	SG	CYS	B	309	36.304	71.024	52.425	1.00	21.40	B	S
	ATOM	1616	C	CYS	B	309	33.870	72.886	51.395	1.00	19.97	B	C
65	ATOM	1617	O	CYS	B	309	33.743	73.871	52.126	1.00	19.88	B	O
	ATOM	1618	N	MET	B	310	34.270	72.977	50.129	1.00	21.42	B	N
	ATOM	1619	CA	MET	B	310	34.586	74.275	49.524	1.00	20.77	B	C
	ATOM	1620	CB	MET	B	310	35.887	74.161	48.709	1.00	19.65	B	C

	ATOM	1621	CG	MET	B	310	35.733	73.494	47.335	1.00	15.56	B	C
	ATOM	1622	SD	MET	B	310	35.200	71.779	47.412	1.00	16.98	B	S
	ATOM	1623	CE	MET	B	310	36.558	70.990	48.304	1.00	13.12	B	C
5	ATOM	1624	C	MET	B	310	33.451	74.831	48.641	1.00	20.46	B	C
	ATOM	1625	O	MET	B	310	32.669	74.072	48.050	1.00	19.84	B	O
	ATOM	1626	N	ASN	B	311	33.369	76.157	48.567	1.00	19.38	B	N
	ATOM	1627	CA	ASN	B	311	32.359	76.829	47.755	1.00	19.74	B	C
	ATOM	1628	CB	ASN	B	311	32.339	78.333	48.085	1.00	23.11	B	C
10	ATOM	1629	CG	ASN	B	311	31.252	79.094	47.328	1.00	28.09	B	C
	ATOM	1630	OD1	ASN	B	311	30.061	78.806	47.462	1.00	30.06	B	O
	ATOM	1631	ND2	ASN	B	311	31.662	80.072	46.533	1.00	30.65	B	N
	ATOM	1632	C	ASN	B	311	32.717	76.631	46.283	1.00	20.24	B	C
	ATOM	1633	O	ASN	B	311	33.885	76.458	45.940	1.00	17.77	B	O
15	ATOM	1634	N	GLN	B	312	31.712	76.651	45.414	1.00	20.56	B	N
	ATOM	1635	CA	GLN	B	312	31.957	76.499	43.992	1.00	20.64	B	C
	ATOM	1636	CB	GLN	B	312	30.633	76.521	43.238	1.00	20.36	B	C
	ATOM	1637	CG	GLN	B	312	29.864	77.824	43.396	1.00	20.64	B	C
	ATOM	1638	CD	GLN	B	312	28.538	77.767	42.680	1.00	20.37	B	C
	ATOM	1639	OE1	GLN	B	312	28.331	76.883	41.849	1.00	21.83	B	O
20	ATOM	1640	NE2	GLN	B	312	27.626	78.694	42.999	1.00	15.63	B	N
	ATOM	1641	C	GLN	B	312	32.890	77.613	43.466	1.00	20.79	B	C
	ATOM	1642	O	GLN	B	312	33.733	77.363	42.601	1.00	22.07	B	O
	ATOM	1643	N	LYS	B	313	32.758	78.829	43.995	1.00	19.47	B	N
25	ATOM	1644	CA	LYS	B	313	33.602	79.948	43.555	1.00	19.04	B	C
	ATOM	1645	CB	LYS	B	313	33.091	81.273	44.121	1.00	22.36	B	C
	ATOM	1646	CG	LYS	B	313	31.760	81.730	43.552	1.00	25.73	B	C
	ATOM	1647	CD	LYS	B	313	31.566	83.222	43.782	1.00	27.81	B	C
	ATOM	1648	CE	LYS	B	313	31.121	83.501	45.187	1.00	30.15	B	C
	ATOM	1649	NZ	LYS	B	313	31.051	84.962	45.414	1.00	33.67	B	N
30	ATOM	1650	C	LYS	B	313	35.039	79.758	43.996	1.00	18.59	B	C
	ATOM	1651	O	LYS	B	313	35.970	80.280	43.384	1.00	19.80	B	O
	ATOM	1652	N	HIS	B	314	35.206	79.017	45.080	1.00	17.80	B	N
	ATOM	1653	CA	HIS	B	314	36.512	78.716	45.647	1.00	16.08	B	C
35	ATOM	1654	CB	HIS	B	314	36.303	78.188	47.076	1.00	20.91	B	C
	ATOM	1655	CG	HIS	B	314	37.565	77.857	47.806	1.00	21.45	B	C
	ATOM	1656	CD2	HIS	B	314	37.764	77.277	49.012	1.00	19.27	B	C
	ATOM	1657	ND1	HIS	B	314	38.818	78.109	47.289	1.00	25.06	B	N
	ATOM	1658	CE1	HIS	B	314	39.736	77.695	48.144	1.00	24.04	B	C
	ATOM	1659	NE2	HIS	B	314	39.122	77.187	49.199	1.00	25.80	B	N
40	ATOM	1660	C	HIS	B	314	37.156	77.652	44.747	1.00	15.10	B	C
	ATOM	1661	O	HIS	B	314	38.322	77.751	44.381	1.00	13.72	B	O
	ATOM	1662	N	LEU	B	315	36.395	76.629	44.391	1.00	13.64	B	N
	ATOM	1663	CA	LEU	B	315	36.920	75.593	43.511	1.00	17.29	B	C
45	ATOM	1664	CB	LEU	B	315	35.870	74.499	43.295	1.00	15.36	B	C
	ATOM	1665	CG	LEU	B	315	36.242	73.457	42.236	1.00	14.69	B	C
	ATOM	1666	CD1	LEU	B	315	37.561	72.792	42.625	1.00	12.58	B	C
	ATOM	1667	CD2	LEU	B	315	35.114	72.427	42.089	1.00	14.24	B	C
	ATOM	1668	C	LEU	B	315	37.304	76.217	42.156	1.00	18.21	B	C
	ATOM	1669	O	LEU	B	315	38.372	75.924	41.605	1.00	18.82	B	O
50	ATOM	1670	N	LEU	B	316	36.435	77.084	41.631	1.00	18.31	B	N
	ATOM	1671	CA	LEU	B	316	36.678	77.752	40.350	1.00	17.78	B	C
	ATOM	1672	CB	LEU	B	316	35.517	78.698	40.024	1.00	14.70	B	C
	ATOM	1673	CG	LEU	B	316	35.585	79.412	38.661	1.00	17.25	B	C
	ATOM	1674	CD1	LEU	B	316	35.539	78.400	37.528	1.00	15.21	B	C
55	ATOM	1675	CD2	LEU	B	316	34.425	80.378	38.523	1.00	14.51	B	C
	ATOM	1676	C	LEU	B	316	37.993	78.525	40.391	1.00	17.82	B	C
	ATOM	1677	O	LEU	B	316	38.860	78.371	39.541	1.00	20.17	B	O
	ATOM	1678	N	ARG	B	317	38.146	79.354	41.403	1.00	20.92	B	N
60	ATOM	1679	CA	ARG	B	317	39.355	80.142	41.576	1.00	19.34	B	C
	ATOM	1680	CB	ARG	B	317	39.208	80.976	42.849	1.00	20.54	B	C
	ATOM	1681	CG	ARG	B	317	40.414	81.790	43.238	1.00	29.79	B	C
	ATOM	1682	CD	ARG	B	317	40.047	82.853	44.293	1.00	36.33	B	C
	ATOM	1683	NE	ARG	B	317	39.242	82.326	45.406	1.00	40.47	B	N
	ATOM	1684	CZ	ARG	B	317	37.940	82.568	45.574	1.00	42.06	B	C
65	ATOM	1685	NH1	ARG	B	317	37.282	83.333	44.697	1.00	43.82	B	N
	ATOM	1686	NH2	ARG	B	317	37.293	82.051	46.615	1.00	36.83	B	N
	ATOM	1687	C	ARG	B	317	40.616	79.264	41.651	1.00	19.94	B	C
	ATOM	1688	O	ARG	B	317	41.667	79.619	41.101	1.00	18.56	B	O

	ATOM	1689	N	PHE	B	318	40.524	78.123	42.333	1.00	17.97	B	N
	ATOM	1690	CA	PHE	B	318	41.681	77.237	42.462	1.00	18.61	B	C
	ATOM	1691	CB	PHE	B	318	41.438	76.140	43.511	1.00	16.14	B	C
5	ATOM	1692	CG	PHE	B	318	42.632	75.240	43.716	1.00	16.80	B	C
	ATOM	1693	CD1	PHE	B	318	43.630	75.574	44.636	1.00	18.11	B	C
	ATOM	1694	CD2	PHE	B	318	42.792	74.084	42.957	1.00	14.62	B	C
	ATOM	1695	CE1	PHE	B	318	44.774	74.768	44.794	1.00	17.60	B	C
	ATOM	1696	CE2	PHE	B	318	43.927	73.276	43.108	1.00	16.33	B	C
10	ATOM	1697	CZ	PHE	B	318	44.920	73.619	44.027	1.00	13.79	B	C
	ATOM	1698	C	PHE	B	318	42.058	76.561	41.147	1.00	17.21	B	C
	ATOM	1699	O	PHE	B	318	43.239	76.396	40.845	1.00	18.68	B	O
	ATOM	1700	N	ILE	B	319	41.058	76.143	40.381	1.00	17.45	B	N
	ATOM	1701	CA	ILE	B	319	41.332	75.488	39.115	1.00	15.56	B	C
15	ATOM	1702	CB	ILE	B	319	40.031	75.116	38.412	1.00	13.64	B	C
	ATOM	1703	CG2	ILE	B	319	40.309	74.675	36.999	1.00	14.74	B	C
	ATOM	1704	CG1	ILE	B	319	39.350	73.984	39.174	1.00	11.69	B	C
	ATOM	1705	CD1	ILE	B	319	37.957	73.692	38.709	1.00	13.37	B	C
	ATOM	1706	C	ILE	B	319	42.157	76.437	38.250	1.00	17.93	B	C
20	ATOM	1707	O	ILE	B	319	43.209	76.060	37.738	1.00	16.81	B	O
	ATOM	1708	N	LYS	B	320	41.691	77.680	38.132	1.00	18.44	B	N
	ATOM	1709	CA	LYS	B	320	42.368	78.701	37.337	1.00	21.19	B	C
	ATOM	1710	CB	LYS	B	320	41.544	79.983	37.322	1.00	20.37	B	C
	ATOM	1711	CG	LYS	B	320	40.256	79.849	36.539	1.00	21.96	B	C
25	ATOM	1712	CD	LYS	B	320	39.471	81.142	36.537	1.00	17.39	B	C
	ATOM	1713	CE	LYS	B	320	38.137	80.937	35.867	1.00	14.75	B	C
	ATOM	1714	NZ	LYS	B	320	37.612	82.228	35.406	1.00	20.21	B	N
	ATOM	1715	C	LYS	B	320	43.774	79.020	37.821	1.00	22.66	B	C
	ATOM	1716	O	LYS	B	320	44.677	79.251	37.022	1.00	23.73	B	O
30	ATOM	1717	N	LYS	B	321	43.957	79.046	39.131	1.00	23.89	B	N
	ATOM	1718	CA	LYS	B	321	45.267	79.314	39.693	1.00	23.44	B	C
	ATOM	1719	CB	LYS	B	321	45.155	79.586	41.189	1.00	25.60	B	C
	ATOM	1720	CG	LYS	B	321	46.436	80.086	41.815	1.00	29.62	B	C
	ATOM	1721	CD	LYS	B	321	46.888	81.384	41.167	1.00	36.39	B	C
35	ATOM	1722	CE	LYS	B	321	48.035	82.030	41.938	1.00	37.44	B	C
	ATOM	1723	NZ	LYS	B	321	49.249	81.167	41.932	1.00	41.92	B	N
	ATOM	1724	C	LYS	B	321	46.191	78.132	39.459	1.00	23.33	B	C
	ATOM	1725	O	LYS	B	321	47.377	78.321	39.237	1.00	25.00	B	O
	ATOM	1726	N	SER	B	322	45.653	76.915	39.504	1.00	23.12	B	N
40	ATOM	1727	CA	SER	B	322	46.485	75.733	39.285	1.00	23.06	B	C
	ATOM	1728	CB	SER	B	322	45.687	74.451	39.544	1.00	18.13	B	C
	ATOM	1729	OG	SER	B	322	44.695	74.242	38.557	1.00	18.46	B	O
	ATOM	1730	C	SER	B	322	47.021	75.746	37.854	1.00	26.55	B	C
	ATOM	1731	O	SER	B	322	48.167	75.356	37.597	1.00	24.35	B	O
45	ATOM	1732	N	TYR	B	323	46.192	76.213	36.924	1.00	28.36	B	N
	ATOM	1733	CA	TYR	B	323	46.598	76.274	35.528	1.00	31.57	B	C
	ATOM	1734	CB	TYR	B	323	45.397	76.557	34.632	1.00	32.10	B	C
	ATOM	1735	CG	TYR	B	323	45.758	76.581	33.168	1.00	36.01	B	C
	ATOM	1736	CD1	TYR	B	323	45.950	77.790	32.498	1.00	37.77	B	C
50	ATOM	1737	CE1	TYR	B	323	46.270	77.824	31.139	1.00	39.71	B	C
	ATOM	1738	CD2	TYR	B	323	45.899	75.395	32.446	1.00	37.39	B	C
	ATOM	1739	CE2	TYR	B	323	46.219	75.411	31.087	1.00	39.19	B	C
	ATOM	1740	CZ	TYR	B	323	46.402	76.632	30.441	1.00	41.89	B	C
	ATOM	1741	OH	TYR	B	323	46.702	76.667	29.096	1.00	45.30	B	O
55	ATOM	1742	C	TYR	B	323	47.650	77.357	35.316	1.00	32.01	B	C
	ATOM	1743	O	TYR	B	323	48.551	77.217	34.489	1.00	30.55	B	O
	ATOM	1744	N	GLN	B	324	47.533	78.440	36.068	1.00	31.63	B	N
	ATOM	1745	CA	GLN	B	324	48.482	79.533	35.939	1.00	33.97	B	C
	ATOM	1746	CB	GLN	B	324	48.043	80.722	36.796	1.00	35.43	B	C
60	ATOM	1747	CG	GLN	B	324	49.051	81.850	36.876	1.00	40.05	B	C
	ATOM	1748	CD	GLN	B	324	48.901	82.667	38.155	1.00	45.11	B	C
	ATOM	1749	OE1	GLN	B	324	47.854	83.276	38.399	1.00	46.20	B	O
	ATOM	1750	NE2	GLN	B	324	49.946	82.680	38.980	1.00	45.54	B	N
	ATOM	1751	C	GLN	B	324	49.866	79.082	36.361	1.00	32.59	B	C
65	ATOM	1752	O	GLN	B	324	50.862	79.475	35.763	1.00	32.96	B	O
	ATOM	1753	N	VAL	B	325	49.931	78.235	37.382	1.00	32.16	B	N
	ATOM	1754	CA	VAL	B	325	51.220	77.777	37.871	1.00	29.10	B	C
	ATOM	1755	CB	VAL	B	325	51.324	77.973	39.405	1.00	26.61	B	C
	ATOM	1756	CG1	VAL	B	325	50.636	79.252	39.808	1.00	26.22	B	C

	ATOM	1757	CG2	VAL	B	325	50.699	76.803	40.128	1.00	29.99	B	C
	ATOM	1758	C	VAL	B	325	51.653	76.346	37.536	1.00	28.28	B	C
	ATOM	1759	O	VAL	B	325	52.823	76.027	37.704	1.00	29.34	B	O
5	ATOM	1760	N	ASP	B	326	50.749	75.489	37.062	1.00	26.19	B	N
	ATOM	1761	CA	ASP	B	326	51.131	74.107	36.761	1.00	22.24	B	C
	ATOM	1762	CB	ASP	B	326	50.494	73.151	37.772	1.00	22.93	B	C
	ATOM	1763	CG	ASP	B	326	51.189	73.151	39.117	1.00	21.33	B	C
	ATOM	1764	OD1	ASP	B	326	52.241	73.800	39.264	1.00	20.53	B	O
10	ATOM	1765	OD2	ASP	B	326	50.670	72.487	40.036	1.00	20.38	B	O
	ATOM	1766	C	ASP	B	326	50.723	73.634	35.384	1.00	21.44	B	C
	ATOM	1767	O	ASP	B	326	50.691	72.434	35.145	1.00	24.18	B	O
	ATOM	1768	N	ALA	B	327	50.402	74.551	34.482	1.00	22.20	B	N
	ATOM	1769	CA	ALA	B	327	49.950	74.164	33.142	1.00	25.46	B	C
	ATOM	1770	CB	ALA	B	327	49.875	75.394	32.242	1.00	24.18	B	C
15	ATOM	1771	C	ALA	B	327	50.825	73.099	32.492	1.00	25.60	B	C
	ATOM	1772	O	ALA	B	327	50.350	72.264	31.706	1.00	25.86	B	O
	ATOM	1773	N	ASP	B	328	52.104	73.127	32.837	1.00	27.70	B	N
	ATOM	1774	CA	ASP	B	328	53.048	72.176	32.280	1.00	31.73	B	C
20	ATOM	1775	CB	ASP	B	328	54.317	72.904	31.822	1.00	36.48	B	C
	ATOM	1776	CG	ASP	B	328	54.075	73.839	30.634	1.00	39.16	B	C
	ATOM	1777	OD1	ASP	B	328	53.181	73.570	29.793	1.00	41.44	B	O
	ATOM	1778	OD2	ASP	B	328	54.798	74.850	30.547	1.00	41.53	B	O
	ATOM	1779	C	ASP	B	328	53.441	71.035	33.216	1.00	30.93	B	C
25	ATOM	1780	O	ASP	B	328	54.365	70.291	32.907	1.00	31.58	B	O
	ATOM	1781	N	ARG	B	329	52.755	70.892	34.348	1.00	28.98	B	N
	ATOM	1782	CA	ARG	B	329	53.070	69.818	35.282	1.00	25.56	B	C
	ATOM	1783	CB	ARG	B	329	52.548	70.158	36.684	1.00	28.49	B	C
	ATOM	1784	CG	ARG	B	329	53.393	69.592	37.817	1.00	29.70	B	C
30	ATOM	1785	CD	ARG	B	329	52.605	68.710	38.784	1.00	30.75	B	C
	ATOM	1786	NE	ARG	B	329	52.067	69.493	39.886	1.00	31.02	B	N
	ATOM	1787	CZ	ARG	B	329	52.037	69.114	41.159	1.00	30.57	B	C
	ATOM	1788	NH1	ARG	B	329	52.519	67.947	41.540	1.00	32.69	B	N
	ATOM	1789	NH2	ARG	B	329	51.488	69.911	42.057	1.00	29.17	B	N
35	ATOM	1790	C	ARG	B	329	52.396	68.553	34.790	1.00	23.08	B	C
	ATOM	1791	O	ARG	B	329	51.251	68.610	34.322	1.00	20.32	B	O
	ATOM	1792	N	VAL	B	330	53.094	67.418	34.864	1.00	22.22	B	N
	ATOM	1793	CA	VAL	B	330	52.454	66.171	34.445	1.00	24.80	B	C
	ATOM	1794	CB	VAL	B	330	53.446	65.014	34.292	1.00	23.18	B	C
40	ATOM	1795	CG1	VAL	B	330	52.682	63.712	34.001	1.00	20.41	B	C
	ATOM	1796	CG2	VAL	B	330	54.403	65.326	33.165	1.00	21.64	B	C
	ATOM	1797	C	VAL	B	330	51.500	65.908	35.593	1.00	26.33	B	C
	ATOM	1798	O	VAL	B	330	51.902	65.888	36.759	1.00	25.60	B	O
	ATOM	1799	N	VAL	B	331	50.240	65.688	35.268	1.00	27.00	B	N
45	ATOM	1800	CA	VAL	B	331	49.264	65.561	36.321	1.00	30.04	B	C
	ATOM	1801	CB	VAL	B	331	48.545	66.933	36.443	1.00	29.37	B	C
	ATOM	1802	CG1	VAL	B	331	47.288	66.954	35.582	1.00	23.68	B	C
	ATOM	1803	CG2	VAL	B	331	48.270	67.252	37.884	1.00	34.06	B	C
	ATOM	1804	C	VAL	B	331	48.263	64.443	36.120	1.00	31.71	B	C
50	ATOM	1805	O	VAL	B	331	47.523	64.090	37.037	1.00	31.26	B	O
	ATOM	1806	N	TYR	B	332	48.259	63.872	34.922	1.00	33.05	B	N
	ATOM	1807	CA	TYR	B	332	47.312	62.821	34.584	1.00	36.84	B	C
	ATOM	1808	CB	TYR	B	332	46.168	63.450	33.790	1.00	32.88	B	C
	ATOM	1809	CG	TYR	B	332	45.151	62.498	33.227	1.00	34.50	B	C
55	ATOM	1810	CD1	TYR	B	332	44.014	62.139	33.958	1.00	35.19	B	C
	ATOM	1811	CE1	TYR	B	332	43.031	61.312	33.403	1.00	37.12	B	C
	ATOM	1812	CD2	TYR	B	332	45.285	62.005	31.933	1.00	36.37	B	C
	ATOM	1813	CE2	TYR	B	332	44.311	61.180	31.370	1.00	38.34	B	C
	ATOM	1814	CZ	TYR	B	332	43.187	60.840	32.105	1.00	38.93	B	C
60	ATOM	1815	OH	TYR	B	332	42.212	60.050	31.530	1.00	43.80	B	O
	ATOM	1816	C	TYR	B	332	48.029	61.752	33.772	1.00	41.54	B	C
	ATOM	1817	O	TYR	B	332	48.945	62.058	33.010	1.00	41.75	B	O
	ATOM	1818	N	SER	B	333	47.619	60.498	33.920	1.00	45.30	B	N
	ATOM	1819	CA	SER	B	333	48.286	59.427	33.192	1.00	47.41	B	C
65	ATOM	1820	CB	SER	B	333	48.721	58.322	34.157	1.00	47.17	B	C
	ATOM	1821	OG	SER	B	333	49.456	57.326	33.473	1.00	44.73	B	O
	ATOM	1822	C	SER	B	333	47.477	58.805	32.070	1.00	49.78	B	C
	ATOM	1823	O	SER	B	333	46.337	58.381	32.266	1.00	50.00	B	O
	ATOM	1824	N	THR	B	334	48.082	58.767	30.888	1.00	50.65	B	N

	ATOM	1825	CA	THR	B	334	47.467	58.148	29.725	1.00	53.58	B	C
	ATOM	1826	CB	THR	B	334	46.956	59.188	28.717	1.00	53.59	B	C
	ATOM	1827	OG1	THR	B	334	45.538	59.034	28.584	1.00	55.41	B	O
5	ATOM	1828	CG2	THR	B	334	47.606	58.995	27.347	1.00	52.42	B	C
	ATOM	1829	C	THR	B	334	48.528	57.265	29.078	1.00	55.45	B	C
	ATOM	1830	O	THR	B	334	49.704	57.630	29.034	1.00	54.03	B	O
	ATOM	1831	N	LYS	B	335	48.106	56.108	28.577	1.00	57.30	B	N
	ATOM	1832	CA	LYS	B	335	49.023	55.148	27.964	1.00	58.99	B	C
10	ATOM	1833	CB	LYS	B	335	48.260	54.185	27.061	1.00	56.35	B	C
	ATOM	1834	CG	LYS	B	335	48.844	52.775	27.077	1.00	56.34	B	C
	ATOM	1835	CD	LYS	B	335	50.333	52.720	26.712	1.00	52.41	B	C
	ATOM	1836	CE	LYS	B	335	51.132	51.940	27.753	1.00	51.52	B	C
	ATOM	1837	NZ	LYS	B	335	52.098	50.961	27.165	1.00	50.42	B	N
15	ATOM	1838	C	LYS	B	335	50.221	55.697	27.188	1.00	60.14	B	C
	ATOM	1839	O	LYS	B	335	51.353	55.703	27.691	1.00	61.55	B	O
	ATOM	1840	N	GLU	B	336	49.979	56.132	25.957	1.00	59.63	B	N
	ATOM	1841	CA	GLU	B	336	51.053	56.650	25.122	1.00	59.75	B	C
	ATOM	1842	CB	GLU	B	336	50.530	56.979	23.716	1.00	62.38	B	C
20	ATOM	1843	CG	GLU	B	336	51.314	56.307	22.560	1.00	64.46	B	C
	ATOM	1844	CD	GLU	B	336	52.388	55.310	23.028	1.00	66.24	B	C
	ATOM	1845	OE1	GLU	B	336	53.554	55.727	23.245	1.00	67.48	B	O
	ATOM	1846	OE2	GLU	B	336	52.067	54.108	23.175	1.00	64.67	B	O
	ATOM	1847	C	GLU	B	336	51.732	57.874	25.722	1.00	58.56	B	C
25	ATOM	1848	O	GLU	B	336	52.887	58.171	25.396	1.00	58.27	B	O
	ATOM	1849	N	LYS	B	337	51.024	58.578	26.603	1.00	57.14	B	N
	ATOM	1850	CA	LYS	B	337	51.594	59.769	27.225	1.00	53.72	B	C
	ATOM	1851	CB	LYS	B	337	51.687	60.888	26.186	1.00	53.52	B	C
	ATOM	1852	CG	LYS	B	337	52.344	62.152	26.680	1.00	52.68	B	C
30	ATOM	1853	CD	LYS	B	337	52.169	63.275	25.674	1.00	51.94	B	C
	ATOM	1854	CE	LYS	B	337	52.549	64.613	26.286	1.00	54.76	B	C
	ATOM	1855	NZ	LYS	B	337	53.858	65.132	25.784	1.00	53.04	B	N
	ATOM	1856	C	LYS	B	337	50.833	60.271	28.449	1.00	51.52	B	C
	ATOM	1857	O	LYS	B	337	49.603	60.379	28.445	1.00	52.27	B	O
35	ATOM	1858	N	ASN	B	338	51.579	60.570	29.504	1.00	47.78	B	N
	ATOM	1859	CA	ASN	B	338	50.970	61.094	30.711	1.00	44.94	B	C
	ATOM	1860	CB	ASN	B	338	51.911	60.924	31.907	1.00	44.75	B	C
	ATOM	1861	CG	ASN	B	338	52.338	59.479	32.116	1.00	40.30	B	C
	ATOM	1862	OD1	ASN	B	338	51.506	58.589	32.307	1.00	41.54	B	O
40	ATOM	1863	ND2	ASN	B	338	53.642	59.242	32.080	1.00	37.33	B	N
	ATOM	1864	C	ASN	B	338	50.775	62.565	30.368	1.00	42.16	B	C
	ATOM	1865	O	ASN	B	338	51.693	63.220	29.882	1.00	39.80	B	O
	ATOM	1866	N	LEU	B	339	49.576	63.078	30.606	1.00	39.42	B	N
	ATOM	1867	CA	LEU	B	339	49.272	64.457	30.262	1.00	36.44	B	C
45	ATOM	1868	CB	LEU	B	339	47.765	64.608	30.009	1.00	36.31	B	C
	ATOM	1869	CG	LEU	B	339	47.142	63.477	29.206	1.00	36.18	B	C
	ATOM	1870	CD1	LEU	B	339	45.648	63.708	29.029	1.00	36.40	B	C
	ATOM	1871	CD2	LEU	B	339	47.862	63.405	27.871	1.00	33.76	B	C
	ATOM	1872	C	LEU	B	339	49.687	65.496	31.283	1.00	34.99	B	C
50	ATOM	1873	O	LEU	B	339	49.766	65.230	32.487	1.00	33.93	B	O
	ATOM	1874	N	THR	B	340	49.965	66.693	30.785	1.00	31.86	B	N
	ATOM	1875	CA	THR	B	340	50.284	67.800	31.665	1.00	29.18	B	C
	ATOM	1876	CB	THR	B	340	51.210	68.817	30.998	1.00	29.32	B	C
	ATOM	1877	OG1	THR	B	340	50.510	69.506	29.953	1.00	32.09	B	O
55	ATOM	1878	CG2	THR	B	340	52.406	68.118	30.426	1.00	31.09	B	C
	ATOM	1879	C	THR	B	340	48.921	68.445	31.915	1.00	27.33	B	C
	ATOM	1880	O	THR	B	340	47.936	68.087	31.256	1.00	24.34	B	O
	ATOM	1881	N	LEU	B	341	48.847	69.374	32.866	1.00	27.05	B	N
	ATOM	1882	CA	LEU	B	341	47.566	70.018	33.159	1.00	27.12	B	C
60	ATOM	1883	CB	LEU	B	341	47.762	71.130	34.196	1.00	24.40	B	C
	ATOM	1884	CG	LEU	B	341	46.501	71.792	34.772	1.00	26.92	B	C
	ATOM	1885	CD1	LEU	B	341	45.501	70.725	35.248	1.00	25.28	B	C
	ATOM	1886	CD2	LEU	B	341	46.901	72.736	35.905	1.00	18.18	B	C
	ATOM	1887	C	LEU	B	341	46.973	70.582	31.861	1.00	26.19	B	C
65	ATOM	1888	O	LEU	B	341	45.807	70.342	31.523	1.00	24.44	B	O
	ATOM	1889	N	LYS	B	342	47.808	71.304	31.123	1.00	25.98	B	N
	ATOM	1890	CA	LYS	B	342	47.405	71.905	29.864	1.00	26.94	B	C
	ATOM	1891	CB	LYS	B	342	48.594	72.585	29.221	1.00	31.30	B	C
	ATOM	1892	CG	LYS	B	342	48.245	73.455	28.045	1.00	34.10	B	C

	ATOM	1893	CD	LYS	B	342	49.482	74.227	27.605	1.00	37.61	B	C
	ATOM	1894	CE	LYS	B	342	49.194	75.709	27.444	1.00	42.44	B	C
	ATOM	1895	NZ	LYS	B	342	49.853	76.532	28.510	1.00	44.68	B	N
5	ATOM	1896	C	LYS	B	342	46.842	70.893	28.898	1.00	26.47	B	C
	ATOM	1897	O	LYS	B	342	45.820	71.147	28.270	1.00	25.42	B	O
	ATOM	1898	N	GLN	B	343	47.505	69.744	28.783	1.00	26.85	B	N
	ATOM	1899	CA	GLN	B	343	47.055	68.694	27.876	1.00	27.08	B	C
	ATOM	1900	CB	GLN	B	343	48.118	67.611	27.747	1.00	28.72	B	C
10	ATOM	1901	CG	GLN	B	343	49.327	68.030	26.956	1.00	28.55	B	C
	ATOM	1902	CD	GLN	B	343	50.491	67.084	27.159	1.00	34.41	B	C
	ATOM	1903	OE1	GLN	B	343	50.314	65.933	27.583	1.00	39.67	B	O
	ATOM	1904	NE2	GLN	B	343	51.689	67.561	26.861	1.00	33.14	B	N
	ATOM	1905	C	GLN	B	343	45.753	68.045	28.298	1.00	27.07	B	C
15	ATOM	1906	O	GLN	B	343	44.945	67.664	27.439	1.00	27.63	B	O
	ATOM	1907	N	LEU	B	344	45.550	67.899	29.609	1.00	25.63	B	N
	ATOM	1908	CA	LEU	B	344	44.325	67.282	30.089	1.00	24.64	B	C
	ATOM	1909	CB	LEU	B	344	44.374	67.055	31.611	1.00	23.68	B	C
	ATOM	1910	CG	LEU	B	344	43.024	66.671	32.238	1.00	22.49	B	C
20	ATOM	1911	CD1	LEU	B	344	42.574	65.313	31.722	1.00	21.16	B	C
	ATOM	1912	CD2	LEU	B	344	43.151	66.664	33.762	1.00	25.39	B	C
	ATOM	1913	C	LEU	B	344	43.165	68.194	29.722	1.00	23.42	B	C
	ATOM	1914	O	LEU	B	344	42.088	67.724	29.344	1.00	25.56	B	O
	ATOM	1915	N	PHE	B	345	43.388	69.500	29.824	1.00	23.70	B	N
25	ATOM	1916	CA	PHE	B	345	42.329	70.450	29.498	1.00	27.32	B	C
	ATOM	1917	CB	PHE	B	345	42.683	71.850	30.006	1.00	26.89	B	C
	ATOM	1918	CG	PHE	B	345	42.310	72.076	31.457	1.00	26.51	B	C
	ATOM	1919	CD1	PHE	B	345	40.987	71.948	31.881	1.00	27.35	B	C
	ATOM	1920	CD2	PHE	B	345	43.286	72.374	32.401	1.00	25.08	B	C
	ATOM	1921	CE1	PHE	B	345	40.647	72.111	33.228	1.00	25.06	B	C
30	ATOM	1922	CE2	PHE	B	345	42.954	72.537	33.747	1.00	26.73	B	C
	ATOM	1923	CZ	PHE	B	345	41.632	72.404	34.157	1.00	23.81	B	C
	ATOM	1924	C	PHE	B	345	42.062	70.453	28.000	1.00	28.40	B	C
	ATOM	1925	O	PHE	B	345	40.922	70.640	27.560	1.00	28.65	B	O
35	ATOM	1926	N	ASP	B	346	43.113	70.236	27.214	1.00	31.72	B	N
	ATOM	1927	CA	ASP	B	346	42.969	70.149	25.761	1.00	32.12	B	C
	ATOM	1928	CB	ASP	B	346	44.320	69.973	25.095	1.00	36.97	B	C
	ATOM	1929	CG	ASP	B	346	45.087	71.250	25.003	1.00	41.34	B	C
	ATOM	1930	OD1	ASP	B	346	44.623	72.263	25.560	1.00	48.57	B	O
40	ATOM	1931	OD2	ASP	B	346	46.166	71.246	24.375	1.00	48.77	B	O
	ATOM	1932	C	ASP	B	346	42.134	68.911	25.459	1.00	31.56	B	C
	ATOM	1933	O	ASP	B	346	41.170	68.964	24.701	1.00	31.05	B	O
	ATOM	1934	N	LYS	B	347	42.528	67.792	26.054	1.00	30.72	B	N
	ATOM	1935	CA	LYS	B	347	41.812	66.541	25.867	1.00	32.52	B	C
45	ATOM	1936	CB	LYS	B	347	42.451	65.440	26.724	1.00	35.78	B	C
	ATOM	1937	CG	LYS	B	347	41.764	64.080	26.655	1.00	40.10	B	C
	ATOM	1938	CD	LYS	B	347	40.797	63.882	27.827	1.00	46.96	B	C
	ATOM	1939	CE	LYS	B	347	41.108	62.623	28.644	1.00	48.28	B	C
	ATOM	1940	NZ	LYS	B	347	41.448	61.452	27.784	1.00	50.10	B	N
50	ATOM	1941	C	LYS	B	347	40.356	66.725	26.260	1.00	32.29	B	C
	ATOM	1942	O	LYS	B	347	39.476	66.066	25.706	1.00	34.72	B	O
	ATOM	1943	N	LEU	B	348	40.106	67.617	27.219	1.00	32.70	B	N
	ATOM	1944	CA	LEU	B	348	38.752	67.881	27.702	1.00	30.66	B	C
	ATOM	1945	CB	LEU	B	348	38.784	68.313	29.167	1.00	29.25	B	C
55	ATOM	1946	CG	LEU	B	348	39.078	67.215	30.191	1.00	27.39	B	C
	ATOM	1947	CD1	LEU	B	348	39.114	67.854	31.565	1.00	23.63	B	C
	ATOM	1948	CD2	LEU	B	348	38.022	66.096	30.121	1.00	24.45	B	C
	ATOM	1949	C	LEU	B	348	38.071	68.954	26.879	1.00	31.25	B	C
	ATOM	1950	O	LEU	B	348	36.864	69.156	26.987	1.00	32.65	B	O
60	ATOM	1951	N	LYS	B	349	38.858	69.649	26.068	1.00	33.25	B	N
	ATOM	1952	CA	LYS	B	349	38.346	70.703	25.197	1.00	36.65	B	C
	ATOM	1953	CB	LYS	B	349	37.182	70.148	24.344	1.00	41.35	B	C
	ATOM	1954	CG	LYS	B	349	36.259	71.184	23.679	1.00	48.86	B	C
	ATOM	1955	CD	LYS	B	349	34.846	71.211	24.326	1.00	51.50	B	C
	ATOM	1956	CE	LYS	B	349	34.230	72.613	24.295	1.00	52.20	B	C
65	ATOM	1957	NZ	LYS	B	349	34.377	73.281	22.957	1.00	52.40	B	N
	ATOM	1958	C	LYS	B	349	37.913	71.929	26.001	1.00	35.77	B	C
	ATOM	1959	O	LYS	B	349	36.836	72.490	25.778	1.00	34.82	B	O
	ATOM	1960	N	LEU	B	350	38.753	72.355	26.943	1.00	32.72	B	N

5	ATOM	1961	CA	LEU	B	350	38.409	73.523	27.744	1.00	30.66	B	C
	ATOM	1962	CB	LEU	B	350	37.773	73.116	29.078	1.00	29.41	B	C
	ATOM	1963	CG	LEU	B	350	36.872	71.892	29.222	1.00	31.39	B	C
	ATOM	1964	CD1	LEU	B	350	37.011	71.307	30.628	1.00	29.99	B	C
	ATOM	1965	CD2	LEU	B	350	35.427	72.306	28.945	1.00	32.34	B	C
	ATOM	1966	C	LEU	B	350	39.589	74.399	28.069	1.00	29.23	B	C
	ATOM	1967	O	LEU	B	350	40.720	73.942	28.113	1.00	30.35	B	O
	ATOM	1968	N	HIS	B	351	39.331	75.681	28.266	1.00	31.01	B	N
10	ATOM	1969	CA	HIS	B	351	40.398	76.548	28.708	1.00	31.84	B	C
	ATOM	1970	CB	HIS	B	351	40.671	77.731	27.805	1.00	34.28	B	C
	ATOM	1971	CG	HIS	B	351	41.896	78.479	28.224	1.00	38.67	B	C
	ATOM	1972	CD2	HIS	B	351	42.097	79.355	29.239	1.00	39.86	B	C
	ATOM	1973	ND1	HIS	B	351	43.139	78.233	27.680	1.00	40.25	B	N
15	ATOM	1974	CE1	HIS	B	351	44.053	78.922	28.344	1.00	40.52	B	C
	ATOM	1975	NE2	HIS	B	351	43.447	79.611	29.295	1.00	40.63	B	N
	ATOM	1976	C	HIS	B	351	39.950	77.067	30.057	1.00	32.19	B	C
	ATOM	1977	O	HIS	B	351	39.000	77.842	30.155	1.00	33.99	B	O
	ATOM	1978	N	PRO	B	352	40.638	76.645	31.119	1.00	30.71	B	N
20	ATOM	1979	CD	PRO	B	352	41.807	75.755	31.068	1.00	30.49	B	C
	ATOM	1980	CA	PRO	B	352	40.323	77.045	32.487	1.00	30.71	B	C
	ATOM	1981	CB	PRO	B	352	41.592	76.705	33.275	1.00	31.06	B	C
	ATOM	1982	CG	PRO	B	352	42.580	76.167	32.268	1.00	31.28	B	C
	ATOM	1983	C	PRO	B	352	39.913	78.499	32.659	1.00	30.80	B	C
25	ATOM	1984	O	PRO	B	352	39.001	78.798	33.431	1.00	33.48	B	O
	ATOM	1985	N	TYR	B	353	40.554	79.403	31.930	1.00	28.32	B	N
	ATOM	1986	CA	TYR	B	353	40.242	80.813	32.083	1.00	27.52	B	C
	ATOM	1987	CB	TYR	B	353	41.324	81.655	31.419	1.00	29.35	B	C
	ATOM	1988	CG	TYR	B	353	42.666	81.516	32.106	1.00	33.62	B	C
30	ATOM	1989	CD1	TYR	B	353	42.775	80.898	33.362	1.00	33.11	B	C
	ATOM	1990	CE1	TYR	B	353	44.018	80.754	33.995	1.00	33.03	B	C
	ATOM	1991	CD2	TYR	B	353	43.834	81.989	31.503	1.00	34.28	B	C
	ATOM	1992	CE2	TYR	B	353	45.083	81.850	32.128	1.00	34.09	B	C
	ATOM	1993	CZ	TYR	B	353	45.167	81.233	33.368	1.00	34.17	B	C
35	ATOM	1994	OH	TYR	B	353	46.401	81.097	33.968	1.00	34.18	B	O
	ATOM	1995	C	TYR	B	353	38.861	81.233	31.602	1.00	26.65	B	C
	ATOM	1996	O	TYR	B	353	38.360	82.281	32.011	1.00	26.03	B	O
	ATOM	1997	N	ASP	B	354	38.236	80.421	30.757	1.00	23.90	B	N
	ATOM	1998	CA	ASP	B	354	36.900	80.748	30.267	1.00	24.89	B	C
40	ATOM	1999	CB	ASP	B	354	36.669	80.192	28.858	1.00	28.55	B	C
	ATOM	2000	CG	ASP	B	354	37.740	80.611	27.880	1.00	34.34	B	C
	ATOM	2001	OD1	ASP	B	354	38.283	81.730	28.011	1.00	33.03	B	O
	ATOM	2002	OD2	ASP	B	354	38.038	79.806	26.974	1.00	39.79	B	O
	ATOM	2003	C	ASP	B	354	35.836	80.165	31.187	1.00	22.21	B	C
45	ATOM	2004	O	ASP	B	354	34.646	80.430	31.017	1.00	19.39	B	O
	ATOM	2005	N	LEU	B	355	36.272	79.358	32.150	1.00	20.91	B	N
	ATOM	2006	CA	LEU	B	355	35.349	78.726	33.084	1.00	20.07	B	C
	ATOM	2007	CB	LEU	B	355	36.105	77.785	34.007	1.00	16.83	B	C
	ATOM	2008	CG	LEU	B	355	36.445	76.494	33.263	1.00	16.84	B	C
50	ATOM	2009	CD1	LEU	B	355	37.296	75.601	34.154	1.00	17.87	B	C
	ATOM	2010	CD2	LEU	B	355	35.155	75.793	32.837	1.00	13.70	B	C
	ATOM	2011	C	LEU	B	355	34.561	79.754	33.879	1.00	19.86	B	C
	ATOM	2012	O	LEU	B	355	35.039	80.849	34.183	1.00	17.79	B	O
	ATOM	2013	N	THR	B	356	33.344	79.367	34.228	1.00	19.96	B	N
55	ATOM	2014	CA	THR	B	356	32.413	80.234	34.925	1.00	19.12	B	C
	ATOM	2015	CB	THR	B	356	31.428	80.743	33.855	1.00	17.57	B	C
	ATOM	2016	OG1	THR	B	356	31.833	82.039	33.411	1.00	24.68	B	O
	ATOM	2017	CG2	THR	B	356	30.056	80.776	34.349	1.00	18.32	B	C
	ATOM	2018	C	THR	B	356	31.726	79.330	35.957	1.00	18.75	B	C
60	ATOM	2019	O	THR	B	356	31.896	78.118	35.876	1.00	16.82	B	O
	ATOM	2020	N	VAL	B	357	30.984	79.867	36.933	1.00	17.41	B	N
	ATOM	2021	CA	VAL	B	357	30.309	78.947	37.847	1.00	17.42	B	C
	ATOM	2022	CB	VAL	B	357	29.639	79.628	39.111	1.00	18.29	B	C
	ATOM	2023	CG1	VAL	B	357	30.674	80.402	39.917	1.00	16.64	B	C
65	ATOM	2024	CG2	VAL	B	357	28.497	80.493	38.709	1.00	19.07	B	C
	ATOM	2025	C	VAL	B	357	29.238	78.230	37.022	1.00	16.44	B	C
	ATOM	2026	O	VAL	B	357	28.861	77.105	37.334	1.00	15.07	B	O
	ATOM	2027	N	ASP	B	358	28.764	78.873	35.952	1.00	15.82	B	N
	ATOM	2028	CA	ASP	B	358	27.768	78.252	35.073	1.00	15.95	B	C

	ATOM	2029	CB	ASP	B	358	27.309	79.222	33.978	1.00	19.04	B	C
	ATOM	2030	CG	ASP	B	358	26.426	80.338	34.501	1.00	20.80	B	C
	ATOM	2031	OD1	ASP	B	358	25.777	80.165	35.560	1.00	18.84	B	O
5	ATOM	2032	OD2	ASP	B	358	26.379	81.398	33.836	1.00	24.16	B	O
	ATOM	2033	C	ASP	B	358	28.371	77.015	34.385	1.00	15.82	B	C
	ATOM	2034	O	ASP	B	358	27.770	75.941	34.380	1.00	15.49	B	O
	ATOM	2035	N	SER	B	359	29.548	77.171	33.787	1.00	15.85	B	N
	ATOM	2036	CA	SER	B	359	30.206	76.049	33.112	1.00	17.86	B	C
10	ATOM	2037	CB	SER	B	359	31.260	76.558	32.123	1.00	15.33	B	C
	ATOM	2038	OG	SER	B	359	32.072	77.554	32.711	1.00	20.88	B	O
	ATOM	2039	C	SER	B	359	30.827	75.053	34.110	1.00	16.98	B	C
	ATOM	2040	O	SER	B	359	30.930	73.871	33.809	1.00	17.18	B	O
	ATOM	2041	N	LEU	B	360	31.241	75.527	35.287	1.00	17.36	B	N
15	ATOM	2042	CA	LEU	B	360	31.779	74.638	36.327	1.00	16.98	B	C
	ATOM	2043	CB	LEU	B	360	32.188	75.442	37.571	1.00	17.84	B	C
	ATOM	2044	CG	LEU	B	360	32.709	74.668	38.794	1.00	19.22	B	C
	ATOM	2045	CD1	LEU	B	360	33.962	73.863	38.409	1.00	16.98	B	C
	ATOM	2046	CD2	LEU	B	360	33.043	75.659	39.924	1.00	13.36	B	C
20	ATOM	2047	C	LEU	B	360	30.636	73.666	36.671	1.00	18.02	B	C
	ATOM	2048	O	LEU	B	360	30.866	72.475	36.906	1.00	16.59	B	O
	ATOM	2049	N	ASP	B	361	29.411	74.195	36.717	1.00	18.74	B	N
	ATOM	2050	CA	ASP	B	361	28.200	73.394	36.936	1.00	21.52	B	C
	ATOM	2051	CB	ASP	B	361	27.885	72.653	35.618	1.00	25.08	B	C
25	ATOM	2052	CG	ASP	B	361	26.421	72.227	35.490	1.00	27.71	B	C
	ATOM	2053	OD1	ASP	B	361	25.539	72.892	36.069	1.00	31.69	B	O
	ATOM	2054	OD2	ASP	B	361	26.152	71.219	34.792	1.00	27.03	B	O
	ATOM	2055	C	ASP	B	361	28.229	72.390	38.107	1.00	24.98	B	C
	ATOM	2056	O	ASP	B	361	27.848	71.222	37.942	1.00	25.56	B	O
30	ATOM	2057	N	VAL	B	362	28.664	72.832	39.286	1.00	25.20	B	N
	ATOM	2058	CA	VAL	B	362	28.709	71.936	40.444	1.00	26.07	B	C
	ATOM	2059	CB	VAL	B	362	30.086	71.992	41.166	1.00	23.24	B	C
	ATOM	2060	CG1	VAL	B	362	31.159	71.456	40.255	1.00	25.82	B	C
	ATOM	2061	CG2	VAL	B	362	30.414	73.417	41.594	1.00	24.04	B	C
35	ATOM	2062	C	VAL	B	362	27.604	72.237	41.460	1.00	26.03	B	C
	ATOM	2063	O	VAL	B	362	27.452	71.530	42.447	1.00	27.18	B	O
	ATOM	2064	N	HIS	B	363	26.825	73.280	41.214	1.00	26.28	B	N
	ATOM	2065	CA	HIS	B	363	25.756	73.628	42.129	1.00	27.35	B	C
	ATOM	2066	CB	HIS	B	363	25.469	75.121	42.066	1.00	25.50	B	C
40	ATOM	2067	CG	HIS	B	363	25.134	75.716	43.395	1.00	28.66	B	C
	ATOM	2068	CD2	HIS	B	363	25.931	76.187	44.384	1.00	28.33	B	C
	ATOM	2069	ND1	HIS	B	363	23.834	75.867	43.837	1.00	25.82	B	N
	ATOM	2070	CE1	HIS	B	363	23.848	76.408	45.042	1.00	30.03	B	C
	ATOM	2071	NE2	HIS	B	363	25.107	76.612	45.397	1.00	30.90	B	N
45	ATOM	2072	C	HIS	B	363	24.488	72.854	41.811	1.00	30.13	B	C
	ATOM	2073	O	HIS	B	363	24.121	72.697	40.649	1.00	30.15	B	O
	ATOM	2074	N	ALA	B	364	23.824	72.364	42.852	1.00	31.25	B	N
	ATOM	2075	CA	ALA	B	364	22.585	71.617	42.683	1.00	34.87	B	C
	ATOM	2076	CB	ALA	B	364	22.197	70.954	44.003	1.00	32.06	B	C
50	ATOM	2077	C	ALA	B	364	21.471	72.560	42.209	1.00	37.84	B	C
	ATOM	2078	O	ALA	B	364	21.560	73.781	42.376	1.00	38.38	B	O
	ATOM	2079	N	GLY	B	365	20.428	71.991	41.614	1.00	42.63	B	N
	ATOM	2080	CA	GLY	B	365	19.325	72.800	41.122	1.00	48.16	B	C
	ATOM	2081	C	GLY	B	365	17.991	72.088	41.254	1.00	52.08	B	C
55	ATOM	2082	O	GLY	B	365	17.895	71.192	42.128	1.00	55.37	B	O
	ATOM	2083	OT	GLY	B	365	17.046	72.420	40.492	1.00	53.49	B	O
	ATOM	2084	CB	LYS	D	378	28.139	60.555	40.385	1.00	61.73	D	C
	ATOM	2085	CG	LYS	D	378	29.106	59.829	39.448	1.00	62.72	D	C
	ATOM	2086	CD	LYS	D	378	28.360	58.821	38.548	1.00	65.83	D	C
60	ATOM	2087	CE	LYS	D	378	28.604	57.360	38.976	1.00	66.72	D	C
	ATOM	2088	NZ	LYS	D	378	27.828	56.365	38.162	1.00	64.46	D	N
	ATOM	2089	C	LYS	D	378	28.520	62.996	40.047	1.00	56.54	D	C
	ATOM	2090	O	LYS	D	378	28.236	62.769	38.870	1.00	57.39	D	O
	ATOM	2091	N	LYS	D	378	27.958	62.133	42.291	1.00	59.09	D	N
65	ATOM	2092	CA	LYS	D	378	28.685	61.841	41.023	1.00	58.59	D	C
	ATOM	2093	N	TYR	D	379	28.682	64.228	40.535	1.00	53.74	D	N
	ATOM	2094	CA	TYR	D	379	28.556	65.398	39.671	1.00	49.99	D	C
	ATOM	2095	CB	TYR	D	379	27.270	66.146	39.990	1.00	53.74	D	C
	ATOM	2096	CG	TYR	D	379	26.122	65.432	39.317	1.00	59.57	D	C

5	ATOM	2097	CD1	TYR	D	379	25.547	64.294	39.902	1.00	62.51	D	C
	ATOM	2098	CE1	TYR	D	379	24.579	63.537	39.229	1.00	63.96	D	C
	ATOM	2099	CD2	TYR	D	379	25.694	65.806	38.036	1.00	61.78	D	C
	ATOM	2100	CE2	TYR	D	379	24.726	65.058	37.350	1.00	64.59	D	C
	ATOM	2101	CZ	TYR	D	379	24.176	63.920	37.954	1.00	65.65	D	C
	ATOM	2102	OH	TYR	D	379	23.238	63.159	37.286	1.00	65.93	D	O
	ATOM	2103	C	TYR	D	379	29.786	66.290	39.692	1.00	46.59	D	C
	ATOM	2104	O	TYR	D	379	29.921	67.251	40.459	1.00	44.84	D	O
10	ATOM	2105	N	ASN	D	380	30.669	65.914	38.776	1.00	40.97	D	N
	ATOM	2106	CA	ASN	D	380	31.979	66.485	38.540	1.00	35.19	D	C
	ATOM	2107	CB	ASN	D	380	32.740	65.520	37.638	1.00	35.51	D	C
	ATOM	2108	CG	ASN	D	380	32.310	64.089	37.852	1.00	33.96	D	C
15	ATOM	2109	OD1	ASN	D	380	32.456	63.558	38.948	1.00	36.52	D	O
	ATOM	2110	ND2	ASN	D	380	31.762	63.462	36.816	1.00	32.74	D	N
	ATOM	2111	C	ASN	D	380	32.093	67.885	37.973	1.00	30.37	D	C
	ATOM	2112	O	ASN	D	380	31.182	68.386	37.316	1.00	27.70	D	O
20	ATOM	2113	N	PRO	D	381	33.243	68.532	38.229	1.00	27.04	D	N
	ATOM	2114	CD	PRO	D	381	34.372	68.009	39.020	1.00	24.09	D	C
	ATOM	2115	CA	PRO	D	381	33.508	69.885	37.747	1.00	25.83	D	C
	ATOM	2116	CB	PRO	D	381	34.917	70.180	38.258	1.00	23.18	D	C
25	ATOM	2117	CG	PRO	D	381	35.100	69.246	39.412	1.00	23.17	D	C
	ATOM	2118	C	PRO	D	381	33.428	69.886	36.228	1.00	25.45	D	C
	ATOM	2119	O	PRO	D	381	34.024	69.038	35.571	1.00	23.52	D	O
	ATOM	2120	N	VAL	D	382	32.673	70.834	35.686	1.00	26.52	D	N
30	ATOM	2121	CA	VAL	D	382	32.480	70.961	34.247	1.00	28.28	D	C
	ATOM	2122	CB	VAL	D	382	33.733	71.590	33.583	1.00	27.18	D	C
	ATOM	2123	CG1	VAL	D	382	34.676	70.522	33.121	1.00	33.11	D	C
	ATOM	2124	CG2	VAL	D	382	33.318	72.465	32.422	1.00	28.52	D	C
35	ATOM	2125	C	VAL	D	382	32.121	69.617	33.592	1.00	27.65	D	C
	ATOM	2126	O	VAL	D	382	32.429	69.370	32.431	1.00	28.83	D	O
	ATOM	2127	N	GLY	D	383	31.454	68.756	34.351	1.00	27.93	D	N
	ATOM	2128	CA	GLY	D	383	31.042	67.460	33.833	1.00	25.23	D	C
40	ATOM	2129	C	GLY	D	383	32.151	66.454	33.560	1.00	26.36	D	C
	ATOM	2130	O	GLY	D	383	31.901	65.381	33.004	1.00	25.48	D	O
	ATOM	2131	N	ALA	D	384	33.377	66.778	33.962	1.00	25.61	D	N
	ATOM	2132	CA	ALA	D	384	34.516	65.899	33.729	1.00	23.85	D	C
45	ATOM	2133	CB	ALA	D	384	35.660	66.708	33.137	1.00	21.88	D	C
	ATOM	2134	C	ALA	D	384	35.001	65.128	34.973	1.00	23.76	D	C
	ATOM	2135	O	ALA	D	384	35.520	65.704	35.929	1.00	23.45	D	O
	ATOM	2136	N	SER	D	385	34.844	63.811	34.941	1.00	23.50	D	N
50	ATOM	2137	CA	SER	D	385	35.266	62.988	36.058	1.00	23.05	D	C
	ATOM	2138	CB	SER	D	385	34.852	61.535	35.821	1.00	23.47	D	C
	ATOM	2139	OG	SER	D	385	35.600	60.961	34.768	1.00	29.10	D	O
	ATOM	2140	C	SER	D	385	36.776	63.095	36.270	1.00	21.53	D	C
55	ATOM	2141	O	SER	D	385	37.263	62.901	37.377	1.00	22.04	D	O
	ATOM	2142	N	GLU	D	386	37.514	63.419	35.215	1.00	22.00	D	N
	ATOM	2143	CA	GLU	D	386	38.968	63.565	35.310	1.00	22.75	D	C
	ATOM	2144	CB	GLU	D	386	39.588	63.865	33.946	1.00	20.74	D	C
60	ATOM	2145	CG	GLU	D	386	39.568	62.725	32.961	1.00	26.33	D	C
	ATOM	2146	CD	GLU	D	386	38.312	62.716	32.117	1.00	31.31	D	C
	ATOM	2147	OE1	GLU	D	386	38.227	61.875	31.189	1.00	33.42	D	O
	ATOM	2148	OE2	GLU	D	386	37.413	63.550	32.384	1.00	30.73	D	O
65	ATOM	2149	C	GLU	D	386	39.302	64.735	36.223	1.00	24.11	D	C
	ATOM	2150	O	GLU	D	386	40.311	64.720	36.925	1.00	23.52	D	O
	ATOM	2151	N	LEU	D	387	38.456	65.760	36.189	1.00	22.88	D	N
	ATOM	2152	CA	LEU	D	387	38.679	66.940	37.006	1.00	23.90	D	C
70	ATOM	2153	CB	LEU	D	387	37.892	68.112	36.423	1.00	22.03	D	C
	ATOM	2154	CG	LEU	D	387	38.396	68.523	35.034	1.00	22.46	D	C
	ATOM	2155	CD1	LEU	D	387	37.566	69.675	34.501	1.00	19.24	D	C
	ATOM	2156	CD2	LEU	D	387	39.851	68.914	35.107	1.00	18.93	D	C
75	ATOM	2157	C	LEU	D	387	38.311	66.692	38.475	1.00	23.25	D	C
	ATOM	2158	O	LEU	D	387	38.899	67.277	39.378	1.00	22.08	D	O
	ATOM	2159	N	ARG	D	388	37.336	65.823	38.708	1.00	23.97	D	N
	ATOM	2160	CA	ARG	D	388	36.953	65.480	40.065	1.00	24.85	D	C
80	ATOM	2161	CB	ARG	D	388	35.665	64.636	40.035	1.00	27.33	D	C
	ATOM	2162	CG	ARG	D	388	35.652	63.410	40.932	1.00	32.69	D	C
	ATOM	2163	CD	ARG	D	388	34.571	63.517	41.987	1.00	37.49	D	C
	ATOM	2164	NE	ARG	D	388	33.497	64.436	41.598	1.00	44.43	D	N

	ATOM	2165	CZ	ARG	D	388	32.750	65.134	42.456	1.00	44.94	D	C
	ATOM	2166	NH1	ARG	D	388	31.795	65.942	41.996	1.00	42.40	D	N
	ATOM	2167	NH2	ARG	D	388	32.957	65.027	43.773	1.00	44.99	D	N
5	ATOM	2168	C	ARG	D	388	38.136	64.688	40.655	1.00	24.23	D	C
	ATOM	2169	O	ARG	D	388	38.597	64.955	41.768	1.00	20.64	D	O
	ATOM	2170	N	ASP	D	389	38.643	63.733	39.878	1.00	21.97	D	N
	ATOM	2171	CA	ASP	D	389	39.760	62.903	40.302	1.00	19.80	D	C
	ATOM	2172	CB	ASP	D	389	40.119	61.915	39.201	1.00	19.65	D	C
10	ATOM	2173	CG	ASP	D	389	39.091	60.823	39.049	1.00	26.40	D	C
	ATOM	2174	OD1	ASP	D	389	39.157	60.098	38.036	1.00	33.56	D	O
	ATOM	2175	OD2	ASP	D	389	38.217	60.683	39.932	1.00	30.92	D	O
	ATOM	2176	C	ASP	D	389	40.996	63.718	40.638	1.00	19.68	D	C
	ATOM	2177	O	ASP	D	389	41.736	63.391	41.568	1.00	18.31	D	O
15	ATOM	2178	N	LEU	D	390	41.223	64.779	39.871	1.00	18.23	D	N
	ATOM	2179	CA	LEU	D	390	42.405	65.624	40.060	1.00	17.56	D	C
	ATOM	2180	CB	LEU	D	390	42.701	66.372	38.758	1.00	15.03	D	C
	ATOM	2181	CG	LEU	D	390	43.838	67.389	38.754	1.00	18.05	D	C
	ATOM	2182	CD1	LEU	D	390	45.164	66.691	39.040	1.00	18.65	D	C
20	ATOM	2183	CD2	LEU	D	390	43.902	68.072	37.403	1.00	14.47	D	C
	ATOM	2184	C	LEU	D	390	42.326	66.631	41.210	1.00	16.15	D	C
	ATOM	2185	O	LEU	D	390	43.278	66.796	41.973	1.00	14.30	D	O
	ATOM	2186	N	TYR	D	391	41.185	67.294	41.329	1.00	14.40	D	N
	ATOM	2187	CA	TYR	D	391	40.986	68.312	42.353	1.00	16.31	D	C
25	ATOM	2188	CB	TYR	D	391	40.196	69.479	41.738	1.00	14.06	D	C
	ATOM	2189	CG	TYR	D	391	40.966	70.224	40.679	1.00	13.94	D	C
	ATOM	2190	CD1	TYR	D	391	41.951	71.148	41.030	1.00	12.12	D	C
	ATOM	2191	CE1	TYR	D	391	42.702	71.808	40.063	1.00	14.33	D	C
	ATOM	2192	CD2	TYR	D	391	40.738	69.975	39.325	1.00	13.49	D	C
30	ATOM	2193	CE2	TYR	D	391	41.479	70.628	38.336	1.00	17.15	D	C
	ATOM	2194	CZ	TYR	D	391	42.463	71.542	38.712	1.00	17.87	D	C
	ATOM	2195	OH	TYR	D	391	43.215	72.181	37.753	1.00	16.08	D	O
	ATOM	2196	C	TYR	D	391	40.288	67.890	43.658	1.00	16.29	D	C
	ATOM	2197	O	TYR	D	391	40.486	68.528	44.693	1.00	17.42	D	O
35	ATOM	2198	N	LEU	D	392	39.487	66.829	43.611	1.00	14.74	D	N
	ATOM	2199	CA	LEU	D	392	38.701	66.427	44.768	1.00	17.11	D	C
	ATOM	2200	CB	LEU	D	392	37.210	66.615	44.448	1.00	17.47	D	C
	ATOM	2201	CG	LEU	D	392	36.813	67.978	43.843	1.00	19.53	D	C
	ATOM	2202	CD1	LEU	D	392	35.367	67.944	43.328	1.00	15.21	D	C
40	ATOM	2203	CD2	LEU	D	392	36.987	69.076	44.904	1.00	18.99	D	C
	ATOM	2204	C	LEU	D	392	38.919	65.034	45.332	1.00	18.26	D	C
	ATOM	2205	O	LEU	D	392	38.030	64.492	46.001	1.00	18.05	D	O
	ATOM	2206	N	LYS	D	393	40.094	64.460	45.079	1.00	18.33	D	N
	ATOM	2207	CA	LYS	D	393	40.411	63.140	45.594	1.00	17.85	D	C
45	ATOM	2208	CB	LYS	D	393	40.457	62.129	44.465	1.00	20.57	D	C
	ATOM	2209	CG	LYS	D	393	39.153	61.977	43.748	1.00	23.56	D	C
	ATOM	2210	CD	LYS	D	393	38.779	60.521	43.671	1.00	28.09	D	C
	ATOM	2211	CE	LYS	D	393	37.290	60.377	43.455	1.00	32.85	D	C
	ATOM	2212	NZ	LYS	D	393	37.055	59.372	42.388	1.00	40.25	D	N
50	ATOM	2213	C	LYS	D	393	41.755	63.165	46.290	1.00	17.90	D	C
	ATOM	2214	O	LYS	D	393	42.605	64.001	45.986	1.00	14.31	D	O
	ATOM	2215	N	THR	D	394	41.945	62.238	47.225	1.00	18.58	D	N
	ATOM	2216	CA	THR	D	394	43.201	62.142	47.964	1.00	18.53	D	C
	ATOM	2217	CB	THR	D	394	42.966	61.594	49.405	1.00	14.71	D	C
55	ATOM	2218	OG1	THR	D	394	42.390	60.286	49.342	1.00	17.47	D	O
	ATOM	2219	CG2	THR	D	394	42.026	62.495	50.168	1.00	14.68	D	C
	ATOM	2220	C	THR	D	394	44.197	61.235	47.225	1.00	19.85	D	C
	ATOM	2221	O	THR	D	394	45.409	61.379	47.360	1.00	21.28	D	O
	ATOM	2222	N	ASP	D	395	43.686	60.303	46.436	1.00	22.21	D	N
60	ATOM	2223	CA	ASP	D	395	44.559	59.404	45.693	1.00	24.78	D	C
	ATOM	2224	CB	ASP	D	395	44.202	57.940	46.000	1.00	28.20	D	C
	ATOM	2225	CG	ASP	D	395	45.272	56.954	45.517	1.00	36.52	D	C
	ATOM	2226	OD1	ASP	D	395	46.453	57.361	45.376	1.00	40.38	D	O
	ATOM	2227	OD2	ASP	D	395	44.937	55.766	45.275	1.00	40.52	D	O
65	ATOM	2228	C	ASP	D	395	44.478	59.644	44.179	1.00	23.48	D	C
	ATOM	2229	O	ASP	D	395	43.436	59.474	43.561	1.00	21.85	D	O
	ATOM	2230	N	ASN	D	396	45.589	60.062	43.592	1.00	23.47	D	N
	ATOM	2231	CA	ASN	D	396	45.643	60.277	42.158	1.00	21.59	D	C
	ATOM	2232	CB	ASN	D	396	44.786	61.486	41.734	1.00	19.87	D	C

5	ATOM	2233	CG	ASN	D	396	45.259	62.796	42.342	1.00	19.47	D	C
	ATOM	2234	OD1	ASN	D	396	44.487	63.756	42.455	1.00	19.51	D	O
	ATOM	2235	ND2	ASN	D	396	46.522	62.848	42.731	1.00	13.60	D	N
	ATOM	2236	C	ASN	D	396	47.087	60.442	41.738	1.00	20.10	D	C
	ATOM	2237	O	ASN	D	396	47.992	60.220	42.531	1.00	20.30	D	O
	ATOM	2238	N	TYR	D	397	47.300	60.840	40.493	1.00	20.03	D	N
	ATOM	2239	CA	TYR	D	397	48.643	60.991	39.968	1.00	20.19	D	C
10	ATOM	2240	CB	TYR	D	397	48.590	61.419	38.498	1.00	21.06	D	C
	ATOM	2241	CG	TYR	D	397	49.926	61.287	37.802	1.00	23.50	D	C
	ATOM	2242	CD1	TYR	D	397	50.816	62.360	37.758	1.00	23.02	D	C
	ATOM	2243	CE1	TYR	D	397	52.071	62.231	37.176	1.00	25.06	D	C
	ATOM	2244	CD2	TYR	D	397	50.325	60.072	37.237	1.00	24.58	D	C
15	ATOM	2245	CE2	TYR	D	397	51.583	59.926	36.650	1.00	24.46	D	C
	ATOM	2246	CZ	TYR	D	397	52.452	61.004	36.621	1.00	29.08	D	C
	ATOM	2247	OH	TYR	D	397	53.698	60.851	36.037	1.00	31.29	D	O
	ATOM	2248	C	TYR	D	397	49.532	61.947	40.753	1.00	22.39	D	C
	ATOM	2249	O	TYR	D	397	50.760	61.760	40.833	1.00	21.63	D	O
20	ATOM	2250	N	ILE	D	398	48.940	62.982	41.328	1.00	21.07	D	N
	ATOM	2251	CA	ILE	D	398	49.748	63.915	42.091	1.00	20.57	D	C
	ATOM	2252	CB	ILE	D	398	49.459	65.388	41.691	1.00	20.16	D	C
	ATOM	2253	CG2	ILE	D	398	50.045	65.659	40.318	1.00	19.83	D	C
	ATOM	2254	CG1	ILE	D	398	47.956	65.671	41.691	1.00	17.45	D	C
25	ATOM	2255	CD1	ILE	D	398	47.626	67.140	41.726	1.00	15.45	D	C
	ATOM	2256	C	ILE	D	398	49.508	63.703	43.574	1.00	21.12	D	C
	ATOM	2257	O	ILE	D	398	49.662	64.619	44.369	1.00	24.13	D	O
	ATOM	2258	N	ASN	D	399	49.134	62.477	43.934	1.00	22.94	D	N
	ATOM	2259	CA	ASN	D	399	48.872	62.098	45.325	1.00	24.00	D	C
30	ATOM	2260	CB	ASN	D	399	50.194	61.900	46.059	1.00	27.73	D	C
	ATOM	2261	CG	ASN	D	399	51.099	60.918	45.348	1.00	30.92	D	C
	ATOM	2262	OD1	ASN	D	399	50.701	59.783	45.070	1.00	35.81	D	O
	ATOM	2263	ND2	ASN	D	399	52.319	61.350	45.034	1.00	29.80	D	N
	ATOM	2264	C	ASN	D	399	47.992	63.067	46.105	1.00	23.18	D	C
35	ATOM	2265	O	ASN	D	399	48.351	63.497	47.202	1.00	22.90	D	O
	ATOM	2266	N	GLY	D	400	46.849	63.403	45.515	1.00	20.12	D	N
	ATOM	2267	CA	GLY	D	400	45.884	64.287	46.140	1.00	19.69	D	C
	ATOM	2268	C	GLY	D	400	46.379	65.639	46.590	1.00	16.64	D	C
	ATOM	2269	O	GLY	D	400	45.781	66.272	47.444	1.00	17.56	D	O
40	ATOM	2270	N	GLU	D	401	47.458	66.113	46.007	1.00	16.96	D	N
	ATOM	2271	CA	GLU	D	401	47.972	67.397	46.432	1.00	18.86	D	C
	ATOM	2272	CB	GLU	D	401	49.277	67.714	45.707	1.00	19.79	D	C
	ATOM	2273	CG	GLU	D	401	49.735	69.133	45.949	1.00	24.48	D	C
	ATOM	2274	CD	GLU	D	401	50.886	69.539	45.055	1.00	29.62	D	C
45	ATOM	2275	OE1	GLU	D	401	51.832	68.718	44.906	1.00	29.83	D	O
	ATOM	2276	OE2	GLU	D	401	50.833	70.676	44.511	1.00	24.20	D	O
	ATOM	2277	C	GLU	D	401	47.023	68.580	46.283	1.00	19.29	D	C
	ATOM	2278	O	GLU	D	401	46.992	69.450	47.158	1.00	21.91	D	O
	ATOM	2279	N	TYR	D	402	46.269	68.637	45.190	1.00	15.40	D	N
50	ATOM	2280	CA	TYR	D	402	45.352	69.755	44.964	1.00	16.61	D	C
	ATOM	2281	CB	TYR	D	402	44.745	69.681	43.550	1.00	17.42	D	C
	ATOM	2282	CG	TYR	D	402	45.684	70.135	42.446	1.00	19.44	D	C
	ATOM	2283	CD1	TYR	D	402	46.955	70.625	42.746	1.00	21.17	D	C
	ATOM	2284	CE1	TYR	D	402	47.818	71.053	41.750	1.00	20.51	D	C
55	ATOM	2285	CD2	TYR	D	402	45.303	70.079	41.109	1.00	17.41	D	C
	ATOM	2286	CE2	TYR	D	402	46.159	70.503	40.101	1.00	17.33	D	C
	ATOM	2287	CZ	TYR	D	402	47.415	70.995	40.427	1.00	21.86	D	C
	ATOM	2288	OH	TYR	D	402	48.263	71.485	39.453	1.00	16.83	D	O
	ATOM	2289	C	TYR	D	402	44.229	69.786	45.998	1.00	16.61	D	C
60	ATOM	2290	O	TYR	D	402	43.886	70.844	46.520	1.00	14.31	D	O
	ATOM	2291	N	PHE	D	403	43.657	68.614	46.270	1.00	17.92	D	N
	ATOM	2292	CA	PHE	D	403	42.576	68.463	47.235	1.00	16.79	D	C
	ATOM	2293	CB	PHE	D	403	42.143	66.991	47.292	1.00	17.82	D	C
	ATOM	2294	CG	PHE	D	403	40.918	66.749	48.121	1.00	17.21	D	C
65	ATOM	2295	CD1	PHE	D	403	39.903	67.701	48.184	1.00	17.57	D	C
	ATOM	2296	CD2	PHE	D	403	40.765	65.551	48.816	1.00	17.82	D	C
	ATOM	2297	CE1	PHE	D	403	38.742	67.465	48.930	1.00	17.70	D	C
	ATOM	2298	CE2	PHE	D	403	39.609	65.301	49.564	1.00	18.05	D	C
	ATOM	2299	CZ	PHE	D	403	38.594	66.267	49.618	1.00	16.96	D	C
	ATOM	2300	C	PHE	D	403	43.085	68.925	48.603	1.00	17.90	D	C

	ATOM	2301	O	PHE	D	403	42.383	69.629	49.337	1.00	18.59	D	O
	ATOM	2302	N	ALA	D	404	44.314	68.529	48.934	1.00	16.04	D	N
	ATOM	2303	CA	ALA	D	404	44.925	68.910	50.204	1.00	16.03	D	C
5	ATOM	2304	CB	ALA	D	404	46.296	68.296	50.320	1.00	11.20	D	C
	ATOM	2305	C	ALA	D	404	45.027	70.427	50.287	1.00	17.49	D	C
	ATOM	2306	O	ALA	D	404	44.639	71.042	51.285	1.00	17.76	D	O
	ATOM	2307	N	THR	D	405	45.542	71.033	49.223	1.00	16.94	D	N
	ATOM	2308	CA	THR	D	405	45.695	72.474	49.180	1.00	15.76	D	C
10	ATOM	2309	CB	THR	D	405	46.437	72.901	47.902	1.00	15.75	D	C
	ATOM	2310	OG1	THR	D	405	47.691	72.216	47.847	1.00	14.60	D	O
	ATOM	2311	CG2	THR	D	405	46.691	74.401	47.896	1.00	10.69	D	C
	ATOM	2312	C	THR	D	405	44.370	73.222	49.283	1.00	15.81	D	C
	ATOM	2313	O	THR	D	405	44.296	74.239	49.972	1.00	19.43	D	O
15	ATOM	2314	N	ILE	D	406	43.329	72.739	48.611	1.00	16.01	D	N
	ATOM	2315	CA	ILE	D	406	42.032	73.411	48.684	1.00	17.99	D	C
	ATOM	2316	CB	ILE	D	406	40.972	72.761	47.746	1.00	20.69	D	C
	ATOM	2317	CG2	ILE	D	406	39.635	73.477	47.906	1.00	19.77	D	C
	ATOM	2318	CG1	ILE	D	406	41.411	72.873	46.278	1.00	23.62	D	C
20	ATOM	2319	CD1	ILE	D	406	40.549	72.063	45.294	1.00	22.99	D	C
	ATOM	2320	C	ILE	D	406	41.512	73.321	50.127	1.00	18.49	D	C
	ATOM	2321	O	ILE	D	406	41.021	74.303	50.688	1.00	17.42	D	O
	ATOM	2322	N	ILE	D	407	41.632	72.136	50.716	1.00	15.98	D	N
	ATOM	2323	CA	ILE	D	407	41.178	71.899	52.077	1.00	17.62	D	C
25	ATOM	2324	CB	ILE	D	407	41.394	70.429	52.466	1.00	16.80	D	C
	ATOM	2325	CG2	ILE	D	407	41.604	70.287	53.956	1.00	16.72	D	C
	ATOM	2326	CG1	ILE	D	407	40.182	69.615	52.046	1.00	16.87	D	C
	ATOM	2327	CD1	ILE	D	407	40.493	68.154	51.937	1.00	21.72	D	C
	ATOM	2328	C	ILE	D	407	41.868	72.801	53.100	1.00	18.55	D	C
30	ATOM	2329	O	ILE	D	407	41.218	73.336	53.995	1.00	19.24	D	O
	ATOM	2330	N	LYS	D	408	43.176	72.978	52.976	1.00	19.01	D	N
	ATOM	2331	CA	LYS	D	408	43.880	73.829	53.920	1.00	18.57	D	C
	ATOM	2332	CB	LYS	D	408	45.382	73.679	53.737	1.00	20.54	D	C
	ATOM	2333	CG	LYS	D	408	45.930	72.452	54.455	1.00	22.21	D	C
35	ATOM	2334	CD	LYS	D	408	46.809	71.621	53.559	1.00	27.39	D	C
	ATOM	2335	CE	LYS	D	408	48.195	72.246	53.442	1.00	27.83	D	C
	ATOM	2336	NZ	LYS	D	408	48.688	72.677	54.787	1.00	28.60	D	N
	ATOM	2337	C	LYS	D	408	43.457	75.282	53.756	1.00	19.95	D	C
	ATOM	2338	O	LYS	D	408	43.506	76.074	54.710	1.00	20.00	D	O
40	ATOM	2339	N	GLU	D	409	43.035	75.634	52.549	1.00	15.25	D	N
	ATOM	2340	CA	GLU	D	409	42.581	76.984	52.305	1.00	15.64	D	C
	ATOM	2341	CB	GLU	D	409	42.441	77.233	50.802	1.00	17.04	D	C
	ATOM	2342	CG	GLU	D	409	43.782	77.242	50.076	1.00	18.02	D	C
	ATOM	2343	CD	GLU	D	409	43.667	77.629	48.610	1.00	20.33	D	C
45	ATOM	2344	OE1	GLU	D	409	42.566	77.492	48.033	1.00	20.00	D	O
	ATOM	2345	OE2	GLU	D	409	44.688	78.067	48.028	1.00	22.08	D	O
	ATOM	2346	C	GLU	D	409	41.241	77.175	53.016	1.00	15.49	D	C
	ATOM	2347	O	GLU	D	409	40.965	78.238	53.552	1.00	17.32	D	O
	ATOM	2348	N	VAL	D	410	40.407	76.146	53.016	1.00	16.70	D	N
50	ATOM	2349	CA	VAL	D	410	39.118	76.215	53.695	1.00	15.60	D	C
	ATOM	2350	CB	VAL	D	410	38.290	74.940	53.439	1.00	16.84	D	C
	ATOM	2351	CG1	VAL	D	410	36.997	74.983	54.258	1.00	13.85	D	C
	ATOM	2352	CG2	VAL	D	410	37.987	74.797	51.930	1.00	11.42	D	C
	ATOM	2353	C	VAL	D	410	39.392	76.345	55.205	1.00	20.90	D	C
55	ATOM	2354	O	VAL	D	410	38.782	77.170	55.893	1.00	21.51	D	O
	ATOM	2355	N	GLY	D	411	40.334	75.547	55.705	1.00	19.07	D	N
	ATOM	2356	CA	GLY	D	411	40.671	75.594	57.111	1.00	18.00	D	C
	ATOM	2357	C	GLY	D	411	41.135	76.966	57.543	1.00	21.64	D	C
	ATOM	2358	O	GLY	D	411	40.748	77.449	58.614	1.00	21.28	D	O
60	ATOM	2359	N	ALA	D	412	41.967	77.606	56.723	1.00	20.18	D	N
	ATOM	2360	CA	ALA	D	412	42.469	78.933	57.063	1.00	20.14	D	C
	ATOM	2361	CB	ALA	D	412	43.580	79.335	56.109	1.00	18.72	D	C
	ATOM	2362	C	ALA	D	412	41.366	79.993	57.062	1.00	20.96	D	C
	ATOM	2363	O	ALA	D	412	41.462	81.004	57.763	1.00	20.52	D	O
65	ATOM	2364	N	ASP	D	413	40.324	79.772	56.270	1.00	20.31	D	N
	ATOM	2365	CA	ASP	D	413	39.214	80.715	56.222	1.00	21.06	D	C
	ATOM	2366	CB	ASP	D	413	38.278	80.377	55.064	1.00	25.50	D	C
	ATOM	2367	CG	ASP	D	413	38.774	80.927	53.720	1.00	29.94	D	C
	ATOM	2368	OD1	ASP	D	413	38.282	80.444	52.668	1.00	32.26	D	O

	ATOM	2369	OD2	ASP	D	413	39.646	81.833	53.716	1.00	27.79	D	O
	ATOM	2370	C	ASP	D	413	38.460	80.575	57.538	1.00	21.82	D	C
	ATOM	2371	O	ASP	D	413	37.980	81.552	58.106	1.00	21.76	D	O
	ATOM	2372	N	LEU	D	414	38.358	79.333	58.002	1.00	20.07	D	N
5	ATOM	2373	CA	LEU	D	414	37.696	78.998	59.254	1.00	19.90	D	C
	ATOM	2374	CB	LEU	D	414	37.703	77.482	59.427	1.00	16.71	D	C
	ATOM	2375	CG	LEU	D	414	36.408	76.693	59.262	1.00	20.37	D	C
	ATOM	2376	CD1	LEU	D	414	35.410	77.449	58.427	1.00	16.20	D	C
	ATOM	2377	CD2	LEU	D	414	36.725	75.360	58.657	1.00	17.07	D	C
10	ATOM	2378	C	LEU	D	414	38.450	79.667	60.418	1.00	20.16	D	C
	ATOM	2379	O	LEU	D	414	37.846	80.331	61.268	1.00	20.36	D	O
	ATOM	2380	N	VAL	D	415	39.770	79.491	60.437	1.00	18.79	D	N
	ATOM	2381	CA	VAL	D	415	40.606	80.074	61.473	1.00	19.80	D	C
	ATOM	2382	CB	VAL	D	415	42.087	79.712	61.263	1.00	18.80	D	C
15	ATOM	2383	CG1	VAL	D	415	42.971	80.552	62.175	1.00	16.17	D	C
	ATOM	2384	CG2	VAL	D	415	42.295	78.239	61.539	1.00	15.64	D	C
	ATOM	2385	C	VAL	D	415	40.466	81.593	61.510	1.00	22.32	D	C
	ATOM	2386	O	VAL	D	415	40.528	82.197	62.574	1.00	23.15	D	O
	ATOM	2387	N	ASP	D	416	40.263	82.212	60.354	1.00	25.11	D	N
20	ATOM	2388	CA	ASP	D	416	40.118	83.663	60.304	1.00	26.79	D	C
	ATOM	2389	CB	ASP	D	416	40.161	84.166	58.869	1.00	32.61	D	C
	ATOM	2390	CG	ASP	D	416	41.565	84.316	58.348	1.00	41.98	D	C
	ATOM	2391	OD1	ASP	D	416	41.703	84.369	57.099	1.00	47.96	D	O
	ATOM	2392	OD2	ASP	D	416	42.519	84.381	59.172	1.00	42.34	D	O
25	ATOM	2393	C	ASP	D	416	38.804	84.095	60.906	1.00	24.93	D	C
	ATOM	2394	O	ASP	D	416	38.728	85.135	61.551	1.00	24.62	D	O
	ATOM	2395	N	ALA	D	417	37.762	83.305	60.675	1.00	23.37	D	N
	ATOM	2396	CA	ALA	D	417	36.441	83.632	61.201	1.00	20.82	D	C
	ATOM	2397	CB	ALA	D	417	35.381	82.899	60.423	1.00	22.64	D	C
30	ATOM	2398	C	ALA	D	417	36.364	83.262	62.669	1.00	18.90	D	C
	ATOM	2399	O	ALA	D	417	35.452	83.692	63.366	1.00	21.11	D	O
	ATOM	2400	N	LYS	D	418	37.303	82.425	63.111	1.00	17.57	D	N
	ATOM	2401	CA	LYS	D	418	37.433	81.995	64.510	1.00	16.99	D	C
	ATOM	2402	CB	LYS	D	418	37.734	83.213	65.406	1.00	18.31	D	C
35	ATOM	2403	CG	LYS	D	418	37.728	82.915	66.925	1.00	20.04	D	C
	ATOM	2404	CD	LYS	D	418	38.160	84.133	67.726	1.00	23.39	D	C
	ATOM	2405	CE	LYS	D	418	38.498	83.784	69.171	1.00	25.99	D	C
	ATOM	2406	NZ	LYS	D	418	38.494	85.008	70.036	1.00	28.34	D	N
	ATOM	2407	C	LYS	D	418	36.340	81.186	65.209	1.00	18.65	D	C
40	ATOM	2408	O	LYS	D	418	36.649	80.171	65.851	1.00	19.18	D	O
	ATOM	2409	N	TYR	D	419	35.081	81.619	65.109	1.00	15.56	D	N
	ATOM	2410	CA	TYR	D	419	34.014	80.943	65.841	1.00	15.58	D	C
	ATOM	2411	CB	TYR	D	419	32.973	81.979	66.260	1.00	15.29	D	C
	ATOM	2412	CG	TYR	D	419	33.595	83.080	67.087	1.00	18.34	D	C
45	ATOM	2413	CD1	TYR	D	419	34.028	82.836	68.393	1.00	20.41	D	C
	ATOM	2414	CE1	TYR	D	419	34.699	83.815	69.133	1.00	20.29	D	C
	ATOM	2415	CD2	TYR	D	419	33.837	84.337	66.542	1.00	17.25	D	C
	ATOM	2416	CE2	TYR	D	419	34.507	85.328	67.271	1.00	18.61	D	C
	ATOM	2417	CZ	TYR	D	419	34.939	85.056	68.564	1.00	23.50	D	C
50	ATOM	2418	OH	TYR	D	419	35.641	86.009	69.274	1.00	27.05	D	O
	ATOM	2419	C	TYR	D	419	33.341	79.725	65.231	1.00	18.06	D	C
	ATOM	2420	O	TYR	D	419	32.638	78.990	65.942	1.00	14.56	D	O
	ATOM	2421	N	GLN	D	420	33.555	79.504	63.929	1.00	17.70	D	N
	ATOM	2422	CA	GLN	D	420	32.984	78.341	63.250	1.00	15.87	D	C
55	ATOM	2423	CB	GLN	D	420	32.418	78.734	61.878	1.00	18.42	D	C
	ATOM	2424	CG	GLN	D	420	31.073	79.444	61.941	1.00	18.37	D	C
	ATOM	2425	CD	GLN	D	420	31.188	80.823	62.557	1.00	26.23	D	C
	ATOM	2426	OE1	GLN	D	420	30.743	81.058	63.688	1.00	28.62	D	O
	ATOM	2427	NE2	GLN	D	420	31.795	81.747	61.819	1.00	25.87	D	N
60	ATOM	2428	C	GLN	D	420	34.017	77.220	63.081	1.00	13.90	D	C
	ATOM	2429	O	GLN	D	420	35.177	77.457	62.736	1.00	14.16	D	O
	ATOM	2430	N	HIS	D	421	33.564	75.995	63.328	1.00	12.53	D	N
	ATOM	2431	CA	HIS	D	421	34.383	74.794	63.220	1.00	11.17	D	C
	ATOM	2432	CB	HIS	D	421	34.541	74.157	64.617	1.00	9.26	D	C
65	ATOM	2433	CG	HIS	D	421	35.304	75.010	65.584	1.00	8.51	D	C
	ATOM	2434	CD2	HIS	D	421	34.967	76.158	66.216	1.00	6.15	D	C
	ATOM	2435	ND1	HIS	D	421	36.598	74.726	65.968	1.00	7.15	D	N
	ATOM	2436	CE1	HIS	D	421	37.025	75.664	66.794	1.00	8.00	D	C

	ATOM	2437	NE2	HIS	D	421	36.053	76.543	66.962	1.00	9.32	D	N
	ATOM	2438	C	HIS	D	421	33.698	73.802	62.272	1.00	9.89	D	C
	ATOM	2439	O	HIS	D	421	32.516	73.949	61.941	1.00	10.23	D	O
5	ATOM	2440	N	ALA	D	422	34.428	72.782	61.845	1.00	10.10	D	N
	ATOM	2441	CA	ALA	D	422	33.839	71.786	60.961	1.00	11.59	D	C
	ATOM	2442	CB	ALA	D	422	34.092	72.174	59.503	1.00	13.45	D	C
	ATOM	2443	C	ALA	D	422	34.383	70.394	61.234	1.00	10.06	D	C
	ATOM	2444	O	ALA	D	422	35.513	70.250	61.712	1.00	13.13	D	O
10	ATOM	2445	N	GLU	D	423	33.576	69.377	60.931	1.00	8.49	D	N
	ATOM	2446	CA	GLU	D	423	33.962	67.976	61.108	1.00	11.47	D	C
	ATOM	2447	CB	GLU	D	423	33.019	67.272	62.101	1.00	14.24	D	C
	ATOM	2448	CG	GLU	D	423	32.795	67.992	63.432	1.00	13.09	D	C
	ATOM	2449	CD	GLU	D	423	32.031	67.112	64.384	1.00	11.80	D	C
15	ATOM	2450	OE1	GLU	D	423	32.666	66.294	65.071	1.00	14.05	D	O
	ATOM	2451	OE2	GLU	D	423	30.792	67.209	64.426	1.00	13.84	D	O
	ATOM	2452	C	GLU	D	423	33.913	67.223	59.764	1.00	12.46	D	C
	ATOM	2453	O	GLU	D	423	33.085	66.321	59.561	1.00	13.18	D	O
	ATOM	2454	N	PRO	D	424	34.805	67.579	58.830	1.00	13.81	D	N
20	ATOM	2455	CD	PRO	D	424	35.827	68.640	58.916	1.00	11.97	D	C
	ATOM	2456	CA	PRO	D	424	34.808	66.908	57.530	1.00	12.61	D	C
	ATOM	2457	CB	PRO	D	424	35.876	67.659	56.736	1.00	12.24	D	C
	ATOM	2458	CG	PRO	D	424	36.688	68.382	57.745	1.00	12.39	D	C
	ATOM	2459	C	PRO	D	424	35.040	65.401	57.526	1.00	13.27	D	C
25	ATOM	2460	O	PRO	D	424	35.844	64.866	58.281	1.00	14.29	D	O
	ATOM	2461	N	ARG	D	425	34.310	64.727	56.645	1.00	14.95	D	N
	ATOM	2462	CA	ARG	D	425	34.404	63.284	56.474	1.00	14.59	D	C
	ATOM	2463	CB	ARG	D	425	32.987	62.699	56.295	1.00	14.13	D	C
	ATOM	2464	CG	ARG	D	425	32.450	61.997	57.538	1.00	16.21	D	C
30	ATOM	2465	CD	ARG	D	425	31.116	62.537	58.091	1.00	18.93	D	C
	ATOM	2466	NE	ARG	D	425	31.279	63.764	58.851	1.00	18.29	D	N
	ATOM	2467	CZ	ARG	D	425	30.482	64.188	59.836	1.00	17.02	D	C
	ATOM	2468	NH1	ARG	D	425	29.416	63.493	60.244	1.00	8.41	D	N
	ATOM	2469	NH2	ARG	D	425	30.745	65.373	60.378	1.00	13.54	D	N
35	ATOM	2470	C	ARG	D	425	35.301	62.949	55.257	1.00	15.77	D	C
	ATOM	2471	O	ARG	D	425	35.110	63.489	54.156	1.00	12.75	D	O
	ATOM	2472	N	LEU	D	426	36.298	62.089	55.489	1.00	13.84	D	N
	ATOM	2473	CA	LEU	D	426	37.233	61.635	54.457	1.00	13.81	D	C
	ATOM	2474	CB	LEU	D	426	38.684	61.661	54.975	1.00	13.27	D	C
40	ATOM	2475	CG	LEU	D	426	39.393	62.999	55.203	1.00	13.00	D	C
	ATOM	2476	CD1	LEU	D	426	40.711	62.767	55.943	1.00	12.15	D	C
	ATOM	2477	CD2	LEU	D	426	39.644	63.673	53.843	1.00	13.62	D	C
	ATOM	2478	C	LEU	D	426	36.833	60.195	54.148	1.00	16.23	D	C
	ATOM	2479	O	LEU	D	426	36.357	59.478	55.038	1.00	17.74	D	O
45	ATOM	2480	N	SER	D	427	37.036	59.763	52.903	1.00	16.43	D	N
	ATOM	2481	CA	SER	D	427	36.651	58.410	52.491	1.00	15.86	D	C
	ATOM	2482	CB	SER	D	427	36.118	58.418	51.055	1.00	14.87	D	C
	ATOM	2483	OG	SER	D	427	34.958	59.210	50.935	1.00	13.31	D	O
	ATOM	2484	C	SER	D	427	37.678	57.299	52.569	1.00	14.15	D	C
50	ATOM	2485	O	SER	D	427	38.827	57.466	52.176	1.00	14.21	D	O
	ATOM	2486	N	ILE	D	428	37.225	56.161	53.080	1.00	14.71	D	N
	ATOM	2487	CA	ILE	D	428	38.014	54.935	53.159	1.00	15.31	D	C
	ATOM	2488	CB	ILE	D	428	38.344	54.525	54.627	1.00	14.09	D	C
	ATOM	2489	CG2	ILE	D	428	38.645	53.033	54.701	1.00	14.17	D	C
55	ATOM	2490	CG1	ILE	D	428	39.552	55.323	55.131	1.00	10.21	D	C
	ATOM	2491	CD1	ILE	D	428	40.891	54.979	54.444	1.00	10.91	D	C
	ATOM	2492	C	ILE	D	428	36.968	54.012	52.555	1.00	15.23	D	C
	ATOM	2493	O	ILE	D	428	35.872	53.895	53.098	1.00	18.09	D	O
	ATOM	2494	N	TYR	D	429	37.276	53.388	51.424	1.00	16.56	D	N
60	ATOM	2495	CA	TYR	D	429	36.290	52.554	50.739	1.00	18.56	D	C
	ATOM	2496	CB	TYR	D	429	36.474	52.702	49.224	1.00	18.70	D	C
	ATOM	2497	CG	TYR	D	429	36.320	54.122	48.727	1.00	16.11	D	C
	ATOM	2498	CD1	TYR	D	429	37.418	54.975	48.640	1.00	16.56	D	C
	ATOM	2499	CE1	TYR	D	429	37.282	56.275	48.171	1.00	15.67	D	C
65	ATOM	2500	CD2	TYR	D	429	35.077	54.606	48.332	1.00	15.58	D	C
	ATOM	2501	CE2	TYR	D	429	34.929	55.906	47.861	1.00	14.93	D	C
	ATOM	2502	CZ	TYR	D	429	36.031	56.729	47.782	1.00	20.43	D	C
	ATOM	2503	OH	TYR	D	429	35.875	58.008	47.287	1.00	28.80	D	O
	ATOM	2504	C	TYR	D	429	36.204	51.070	51.071	1.00	21.80	D	C

	ATOM	2505	O	TYR	D	429	35.167	50.440	50.859	1.00	22.65	D	O
	ATOM	2506	N	GLY	D	430	37.281	50.501	51.589	1.00	23.38	D	N
	ATOM	2507	CA	GLY	D	430	37.265	49.079	51.867	1.00	23.35	D	C
	ATOM	2508	C	GLY	D	430	37.543	48.352	50.561	1.00	22.92	D	C
5	ATOM	2509	O	GLY	D	430	37.339	47.149	50.459	1.00	22.50	D	O
	ATOM	2510	N	ARG	D	431	38.012	49.099	49.559	1.00	24.55	D	N
	ATOM	2511	CA	ARG	D	431	38.322	48.549	48.237	1.00	24.93	D	C
	ATOM	2512	CB	ARG	D	431	38.368	49.666	47.193	1.00	27.32	D	C
10	ATOM	2513	CG	ARG	D	431	38.482	49.175	45.748	1.00	30.38	D	C
	ATOM	2514	CD	ARG	D	431	39.034	50.265	44.840	1.00	32.66	D	C
	ATOM	2515	NE	ARG	D	431	40.180	50.956	45.431	1.00	33.51	D	N
	ATOM	2516	CZ	ARG	D	431	40.130	52.190	45.918	1.00	35.48	D	C
	ATOM	2517	NH1	ARG	D	431	38.992	52.870	45.886	1.00	39.25	D	N
	ATOM	2518	NH2	ARG	D	431	41.215	52.754	46.422	1.00	35.08	D	N
15	ATOM	2519	C	ARG	D	431	39.664	47.846	48.268	1.00	24.72	D	C
	ATOM	2520	O	ARG	D	431	39.839	46.782	47.675	1.00	25.84	D	O
	ATOM	2521	N	SER	D	432	40.612	48.451	48.967	1.00	25.25	D	N
	ATOM	2522	CA	SER	D	432	41.942	47.891	49.075	1.00	25.67	D	C
	ATOM	2523	CB	SER	D	432	42.867	48.556	48.058	1.00	24.88	D	C
20	ATOM	2524	OG	SER	D	432	44.198	48.488	48.512	1.00	27.51	D	O
	ATOM	2525	C	SER	D	432	42.496	48.090	50.480	1.00	26.34	D	C
	ATOM	2526	O	SER	D	432	42.185	49.069	51.158	1.00	24.32	D	O
	ATOM	2527	N	PRO	D	433	43.343	47.161	50.935	1.00	29.08	D	N
	ATOM	2528	CD	PRO	D	433	43.802	45.940	50.247	1.00	29.09	D	C
25	ATOM	2529	CA	PRO	D	433	43.912	47.293	52.283	1.00	28.30	D	C
	ATOM	2530	CB	PRO	D	433	44.555	45.930	52.545	1.00	28.15	D	C
	ATOM	2531	CG	PRO	D	433	44.845	45.378	51.189	1.00	27.60	D	C
	ATOM	2532	C	PRO	D	433	44.904	48.440	52.451	1.00	26.29	D	C
	ATOM	2533	O	PRO	D	433	45.141	48.889	53.572	1.00	28.79	D	O
30	ATOM	2534	N	ASP	D	434	45.460	48.937	51.352	1.00	22.52	D	N
	ATOM	2535	CA	ASP	D	434	46.437	50.015	51.435	1.00	21.86	D	C
	ATOM	2536	CB	ASP	D	434	47.441	49.911	50.267	1.00	29.53	D	C
	ATOM	2537	CG	ASP	D	434	46.847	50.338	48.903	1.00	41.48	D	C
	ATOM	2538	OD1	ASP	D	434	45.603	50.435	48.771	1.00	48.99	D	O
35	ATOM	2539	OD2	ASP	D	434	47.632	50.578	47.945	1.00	44.53	D	O
	ATOM	2540	C	ASP	D	434	45.864	51.428	51.516	1.00	19.51	D	C
	ATOM	2541	O	ASP	D	434	46.620	52.398	51.581	1.00	20.01	D	O
	ATOM	2542	N	GLU	D	435	44.539	51.551	51.547	1.00	16.27	D	N
	ATOM	2543	CA	GLU	D	435	43.900	52.866	51.598	1.00	14.81	D	C
40	ATOM	2544	CB	GLU	D	435	42.384	52.716	51.541	1.00	15.12	D	C
	ATOM	2545	CG	GLU	D	435	41.867	52.208	50.229	1.00	15.91	D	C
	ATOM	2546	CD	GLU	D	435	40.367	52.297	50.124	1.00	19.83	D	C
	ATOM	2547	OE1	GLU	D	435	39.749	51.261	49.799	1.00	16.80	D	O
	ATOM	2548	OE2	GLU	D	435	39.811	53.402	50.359	1.00	17.10	D	O
45	ATOM	2549	C	GLU	D	435	44.268	53.668	52.836	1.00	16.13	D	C
	ATOM	2550	O	GLU	D	435	44.464	54.885	52.775	1.00	17.79	D	O
	ATOM	2551	N	TRP	D	436	44.353	52.991	53.974	1.00	16.69	D	N
	ATOM	2552	CA	TRP	D	436	44.688	53.676	55.217	1.00	17.37	D	C
	ATOM	2553	CB	TRP	D	436	44.572	52.702	56.398	1.00	15.71	D	C
50	ATOM	2554	CG	TRP	D	436	43.160	52.500	56.848	1.00	11.94	D	C
	ATOM	2555	CD2	TRP	D	436	42.384	53.407	57.641	1.00	11.12	D	C
	ATOM	2556	CE2	TRP	D	436	41.121	52.811	57.838	1.00	11.03	D	C
	ATOM	2557	CE3	TRP	D	436	42.639	54.664	58.206	1.00	10.70	D	C
	ATOM	2558	CD1	TRP	D	436	42.362	51.425	56.600	1.00	11.02	D	C
55	ATOM	2559	NE1	TRP	D	436	41.133	51.602	57.193	1.00	11.16	D	N
	ATOM	2560	CZ2	TRP	D	436	40.103	53.435	58.583	1.00	11.43	D	C
	ATOM	2561	CZ3	TRP	D	436	41.631	55.278	58.946	1.00	13.39	D	C
	ATOM	2562	CH2	TRP	D	436	40.376	54.658	59.125	1.00	6.93	D	C
	ATOM	2563	C	TRP	D	436	46.098	54.228	55.122	1.00	17.87	D	C
60	ATOM	2564	O	TRP	D	436	46.368	55.373	55.507	1.00	19.41	D	O
	ATOM	2565	N	SER	D	437	46.998	53.411	54.591	1.00	18.09	D	N
	ATOM	2566	CA	SER	D	437	48.390	53.824	54.441	1.00	19.91	D	C
	ATOM	2567	CB	SER	D	437	49.217	52.684	53.832	1.00	21.25	D	C
	ATOM	2568	OG	SER	D	437	50.544	53.121	53.606	1.00	27.86	D	O
65	ATOM	2569	C	SER	D	437	48.495	55.065	53.559	1.00	17.19	D	C
	ATOM	2570	O	SER	D	437	49.211	56.017	53.881	1.00	17.65	D	O
	ATOM	2571	N	LYS	D	438	47.763	55.059	52.452	1.00	17.03	D	N
	ATOM	2572	CA	LYS	D	438	47.791	56.186	51.537	1.00	17.65	D	C

	ATOM	2573	CB	LYS	D	438	47.108	55.814	50.221	1.00	20.44	D	C
	ATOM	2574	CG	LYS	D	438	47.843	54.735	49.443	1.00	22.73	D	C
	ATOM	2575	CD	LYS	D	438	47.749	54.968	47.949	1.00	26.54	D	C
	ATOM	2576	CE	LYS	D	438	47.491	53.657	47.233	1.00	30.37	D	C
5	ATOM	2577	NZ	LYS	D	438	47.508	53.811	45.760	1.00	35.25	D	N
	ATOM	2578	C	LYS	D	438	47.143	57.429	52.118	1.00	18.55	D	C
	ATOM	2579	O	LYS	D	438	47.674	58.537	51.969	1.00	19.01	D	O
	ATOM	2580	N	LEU	D	439	46.002	57.259	52.784	1.00	18.11	D	N
	ATOM	2581	CA	LEU	D	439	45.307	58.410	53.359	1.00	16.64	D	C
10	ATOM	2582	CB	LEU	D	439	43.897	58.008	53.840	1.00	17.59	D	C
	ATOM	2583	CG	LEU	D	439	42.943	59.131	54.282	1.00	16.54	D	C
	ATOM	2584	CD1	LEU	D	439	42.764	60.156	53.169	1.00	15.54	D	C
	ATOM	2585	CD2	LEU	D	439	41.588	58.519	54.677	1.00	15.25	D	C
	ATOM	2586	C	LEU	D	439	46.093	59.052	54.494	1.00	16.69	D	C
15	ATOM	2587	O	LEU	D	439	46.167	60.287	54.572	1.00	17.86	D	O
	ATOM	2588	N	SER	D	440	46.679	58.239	55.376	1.00	15.68	D	N
	ATOM	2589	CA	SER	D	440	47.455	58.801	56.484	1.00	15.72	D	C
	ATOM	2590	CB	SER	D	440	47.938	57.715	57.451	1.00	15.76	D	C
	ATOM	2591	OG	SER	D	440	48.420	56.573	56.780	1.00	19.16	D	O
20	ATOM	2592	C	SER	D	440	48.655	59.575	55.970	1.00	15.74	D	C
	ATOM	2593	O	SER	D	440	49.001	60.623	56.524	1.00	15.10	D	O
	ATOM	2594	N	SER	D	441	49.295	59.060	54.919	1.00	17.73	D	N
	ATOM	2595	CA	SER	D	441	50.459	59.738	54.322	1.00	21.99	D	C
	ATOM	2596	CB	SER	D	441	51.116	58.858	53.253	1.00	23.34	D	C
25	ATOM	2597	OG	SER	D	441	51.726	57.716	53.842	1.00	26.63	D	O
	ATOM	2598	C	SER	D	441	50.032	61.057	53.690	1.00	20.50	D	C
	ATOM	2599	O	SER	D	441	50.729	62.066	53.801	1.00	22.09	D	O
	ATOM	2600	N	TRP	D	442	48.880	61.034	53.020	1.00	21.49	D	N
	ATOM	2601	CA	TRP	D	442	48.324	62.225	52.389	1.00	18.54	D	C
30	ATOM	2602	CB	TRP	D	442	47.000	61.865	51.688	1.00	18.66	D	C
	ATOM	2603	CG	TRP	D	442	46.207	63.072	51.194	1.00	21.35	D	C
	ATOM	2604	CD2	TRP	D	442	45.091	63.716	51.847	1.00	22.09	D	C
	ATOM	2605	CE2	TRP	D	442	44.701	64.806	51.030	1.00	21.01	D	C
	ATOM	2606	CE3	TRP	D	442	44.384	63.477	53.036	1.00	23.42	D	C
35	ATOM	2607	CD1	TRP	D	442	46.433	63.779	50.051	1.00	20.88	D	C
	ATOM	2608	NE1	TRP	D	442	45.537	64.820	49.945	1.00	22.75	D	N
	ATOM	2609	CZ2	TRP	D	442	43.637	65.662	51.365	1.00	20.07	D	C
	ATOM	2610	CZ3	TRP	D	442	43.317	64.335	53.367	1.00	22.28	D	C
	ATOM	2611	CH2	TRP	D	442	42.963	65.410	52.531	1.00	20.67	D	C
40	ATOM	2612	C	TRP	D	442	48.082	63.307	53.451	1.00	18.57	D	C
	ATOM	2613	O	TRP	D	442	48.456	64.470	53.283	1.00	17.16	D	O
	ATOM	2614	N	PHE	D	443	47.460	62.898	54.552	1.00	18.32	D	N
	ATOM	2615	CA	PHE	D	443	47.122	63.799	55.639	1.00	17.80	D	C
	ATOM	2616	CB	PHE	D	443	46.205	63.058	56.631	1.00	20.03	D	C
45	ATOM	2617	CG	PHE	D	443	45.612	63.941	57.704	1.00	20.78	D	C
	ATOM	2618	CD1	PHE	D	443	46.315	64.213	58.879	1.00	20.78	D	C
	ATOM	2619	CD2	PHE	D	443	44.345	64.491	57.547	1.00	19.31	D	C
	ATOM	2620	CE1	PHE	D	443	45.759	65.022	59.875	1.00	21.27	D	C
	ATOM	2621	CE2	PHE	D	443	43.785	65.299	58.542	1.00	20.29	D	C
50	ATOM	2622	CZ	PHE	D	443	44.494	65.563	59.705	1.00	19.58	D	C
	ATOM	2623	C	PHE	D	443	48.346	64.358	56.365	1.00	18.59	D	C
	ATOM	2624	O	PHE	D	443	48.439	65.563	56.600	1.00	20.50	D	O
	ATOM	2625	N	VAL	D	444	49.281	63.488	56.728	1.00	18.53	D	N
	ATOM	2626	CA	VAL	D	444	50.467	63.915	57.459	1.00	20.43	D	C
55	ATOM	2627	CB	VAL	D	444	51.208	62.701	58.042	1.00	22.38	D	C
	ATOM	2628	CG1	VAL	D	444	52.466	63.141	58.751	1.00	20.74	D	C
	ATOM	2629	CG2	VAL	D	444	50.300	61.962	58.999	1.00	23.71	D	C
	ATOM	2630	C	VAL	D	444	51.426	64.719	56.598	1.00	22.51	D	C
	ATOM	2631	O	VAL	D	444	51.869	65.799	56.986	1.00	22.37	D	O
60	ATOM	2632	N	ARG	D	445	51.732	64.198	55.416	1.00	25.12	D	N
	ATOM	2633	CA	ARG	D	445	52.645	64.878	54.505	1.00	25.86	D	C
	ATOM	2634	CB	ARG	D	445	52.896	64.014	53.279	1.00	28.18	D	C
	ATOM	2635	CG	ARG	D	445	54.014	63.016	53.499	1.00	37.25	D	C
	ATOM	2636	CD	ARG	D	445	53.740	61.710	52.788	1.00	40.09	D	C
65	ATOM	2637	NE	ARG	D	445	54.370	60.590	53.473	1.00	43.79	D	N
	ATOM	2638	CZ	ARG	D	445	55.029	59.623	52.847	1.00	47.28	D	C
	ATOM	2639	NH1	ARG	D	445	55.138	59.651	51.525	1.00	48.87	D	N
	ATOM	2640	NH2	ARG	D	445	55.574	58.629	53.536	1.00	46.96	D	N

	ATOM	2641	C	ARG	D	445	52.168	66.258	54.072	1.00	25.23	D	C
	ATOM	2642	O	ARG	D	445	52.966	67.177	53.928	1.00	26.24	D	O
	ATOM	2643	N	ASN	D	446	50.872	66.419	53.848	1.00	24.39	D	N
	ATOM	2644	CA	ASN	D	446	50.374	67.734	53.447	1.00	22.88	D	C
5	ATOM	2645	CB	ASN	D	446	49.095	67.584	52.621	1.00	20.64	D	C
	ATOM	2646	CG	ASN	D	446	49.359	67.064	51.215	1.00	19.73	D	C
	ATOM	2647	OD1	ASN	D	446	49.139	65.887	50.923	1.00	22.68	D	O
	ATOM	2648	ND2	ASN	D	446	49.823	67.941	50.337	1.00	19.31	D	N
10	ATOM	2649	C	ASN	D	446	50.112	68.588	54.698	1.00	23.93	D	C
	ATOM	2650	O	ASN	D	446	49.689	69.744	54.609	1.00	21.22	D	O
	ATOM	2651	N	ARG	D	447	50.376	68.009	55.868	1.00	24.62	D	N
	ATOM	2652	CA	ARG	D	447	50.162	68.702	57.137	1.00	27.35	D	C
	ATOM	2653	CB	ARG	D	447	51.196	69.824	57.339	1.00	27.50	D	C
15	ATOM	2654	CG	ARG	D	447	52.606	69.479	56.862	1.00	34.53	D	C
	ATOM	2655	CD	ARG	D	447	53.546	69.076	57.994	1.00	35.08	D	C
	ATOM	2656	NE	ARG	D	447	53.620	70.089	59.047	1.00	39.33	D	N
	ATOM	2657	CZ	ARG	D	447	54.019	69.844	60.295	1.00	42.72	D	C
	ATOM	2658	NH1	ARG	D	447	54.384	68.618	60.653	1.00	43.37	D	N
20	ATOM	2659	NH2	ARG	D	447	54.039	70.817	61.199	1.00	44.17	D	N
	ATOM	2660	C	ARG	D	447	48.759	69.294	57.179	1.00	26.97	D	C
	ATOM	2661	O	ARG	D	447	48.579	70.507	57.313	1.00	26.85	D	O
	ATOM	2662	N	ILE	D	448	47.762	68.433	57.034	1.00	26.47	D	N
	ATOM	2663	CA	ILE	D	448	46.386	68.884	57.074	1.00	26.36	D	C
25	ATOM	2664	CB	ILE	D	448	45.455	67.913	56.310	1.00	24.51	D	C
	ATOM	2665	CG2	ILE	D	448	44.000	68.232	56.589	1.00	23.38	D	C
	ATOM	2666	CG1	ILE	D	448	45.711	68.036	54.809	1.00	25.29	D	C
	ATOM	2667	CD1	ILE	D	448	45.783	66.714	54.120	1.00	28.39	D	C
	ATOM	2668	C	ILE	D	448	46.074	68.891	58.563	1.00	28.84	D	C
30	ATOM	2669	O	ILE	D	448	46.116	67.868	59.241	1.00	34.42	D	O
	ATOM	2670	N	TYR	D	449	45.820	70.063	59.091	1.00	28.30	D	N
	ATOM	2671	CA	TYR	D	449	45.517	70.183	60.498	1.00	26.63	D	C
	ATOM	2672	CB	TYR	D	449	46.712	69.803	61.376	1.00	26.09	D	C
	ATOM	2673	CG	TYR	D	449	46.559	70.390	62.755	1.00	27.49	D	C
35	ATOM	2674	CD1	TYR	D	449	45.808	69.737	63.735	1.00	25.88	D	C
	ATOM	2675	CE1	TYR	D	449	45.482	70.369	64.935	1.00	26.87	D	C
	ATOM	2676	CD2	TYR	D	449	46.999	71.687	63.023	1.00	29.80	D	C
	ATOM	2677	CE2	TYR	D	449	46.680	72.326	64.213	1.00	30.83	D	C
	ATOM	2678	CZ	TYR	D	449	45.916	71.668	65.160	1.00	30.47	D	C
40	ATOM	2679	OH	TYR	D	449	45.557	72.338	66.308	1.00	36.02	D	O
	ATOM	2680	C	TYR	D	449	45.210	71.644	60.670	1.00	25.03	D	C
	ATOM	2681	O	TYR	D	449	46.051	72.499	60.382	1.00	26.51	D	O
	ATOM	2682	N	SER	D	450	43.997	71.927	61.118	1.00	22.33	D	N
	ATOM	2683	CA	SER	D	450	43.558	73.294	61.315	1.00	19.71	D	C
45	ATOM	2684	CB	SER	D	450	42.466	73.651	60.282	1.00	16.65	D	C
	ATOM	2685	OG	SER	D	450	41.620	74.727	60.703	1.00	23.60	D	O
	ATOM	2686	C	SER	D	450	42.991	73.232	62.715	1.00	21.30	D	C
	ATOM	2687	O	SER	D	450	42.483	72.192	63.146	1.00	20.80	D	O
	ATOM	2688	N	SER	D	451	43.098	74.326	63.448	1.00	21.09	D	N
50	ATOM	2689	CA	SER	D	451	42.566	74.344	64.798	1.00	20.34	D	C
	ATOM	2690	CB	SER	D	451	43.136	75.525	65.566	1.00	21.21	D	C
	ATOM	2691	OG	SER	D	451	42.779	76.722	64.906	1.00	23.88	D	O
	ATOM	2692	C	SER	D	451	41.053	74.449	64.756	1.00	18.33	D	C
	ATOM	2693	O	SER	D	451	40.407	74.387	65.793	1.00	20.39	D	O
55	ATOM	2694	N	ASN	D	452	40.481	74.602	63.564	1.00	16.56	D	N
	ATOM	2695	CA	ASN	D	452	39.032	74.704	63.446	1.00	13.14	D	C
	ATOM	2696	CB	ASN	D	452	38.630	76.032	62.813	1.00	12.84	D	C
	ATOM	2697	CG	ASN	D	452	38.764	77.196	63.783	1.00	14.85	D	C
	ATOM	2698	OD1	ASN	D	452	39.855	77.484	64.264	1.00	17.73	D	O
60	ATOM	2699	ND2	ASN	D	452	37.652	77.866	64.078	1.00	15.05	D	N
	ATOM	2700	C	ASN	D	452	38.398	73.561	62.679	1.00	11.56	D	C
	ATOM	2701	O	ASN	D	452	37.274	73.680	62.200	1.00	11.40	D	O
	ATOM	2702	N	MET	D	453	39.119	72.455	62.577	1.00	10.91	D	N
	ATOM	2703	CA	MET	D	453	38.609	71.284	61.890	1.00	12.52	D	C
65	ATOM	2704	CB	MET	D	453	39.186	71.197	60.471	1.00	14.08	D	C
	ATOM	2705	CG	MET	D	453	38.567	72.121	59.448	1.00	17.73	D	C
	ATOM	2706	SD	MET	D	453	39.278	71.838	57.810	1.00	23.18	D	S
	ATOM	2707	CE	MET	D	453	37.938	72.376	56.774	1.00	22.04	D	C
	ATOM	2708	C	MET	D	453	39.021	70.018	62.632	1.00	14.55	D	C

	ATOM	2709	O	MET	D	453	40.155	69.913	63.096	1.00	16.22	D	O
	ATOM	2710	N	THR	D	454	38.097	69.072	62.763	1.00	13.89	D	N
	ATOM	2711	CA	THR	D	454	38.409	67.777	63.365	1.00	14.59	D	C
5	ATOM	2712	CB	THR	D	454	37.680	67.504	64.728	1.00	15.59	D	C
	ATOM	2713	OG1	THR	D	454	36.287	67.821	64.632	1.00	15.78	D	O
	ATOM	2714	CG2	THR	D	454	38.328	68.339	65.838	1.00	14.21	D	C
	ATOM	2715	C	THR	D	454	37.948	66.818	62.267	1.00	13.98	D	C
	ATOM	2716	O	THR	D	454	37.119	67.197	61.429	1.00	13.78	D	O
10	ATOM	2717	N	TRP	D	455	38.476	65.599	62.268	1.00	13.23	D	N
	ATOM	2718	CA	TRP	D	455	38.207	64.657	61.186	1.00	16.04	D	C
	ATOM	2719	CB	TRP	D	455	39.539	64.351	60.460	1.00	13.75	D	C
	ATOM	2720	CG	TRP	D	455	40.194	65.608	59.930	1.00	14.30	D	C
	ATOM	2721	CD2	TRP	D	455	39.988	66.196	58.635	1.00	15.35	D	C
	ATOM	2722	CE2	TRP	D	455	40.677	67.431	58.618	1.00	16.36	D	C
15	ATOM	2723	CE3	TRP	D	455	39.283	65.799	57.490	1.00	14.20	D	C
	ATOM	2724	CD1	TRP	D	455	40.988	66.480	60.623	1.00	13.99	D	C
	ATOM	2725	NE1	TRP	D	455	41.281	67.584	59.842	1.00	15.74	D	N
	ATOM	2726	CZ2	TRP	D	455	40.680	68.274	57.494	1.00	15.13	D	C
20	ATOM	2727	CZ3	TRP	D	455	39.286	66.636	56.375	1.00	14.75	D	C
	ATOM	2728	CH2	TRP	D	455	39.978	67.855	56.389	1.00	12.80	D	C
	ATOM	2729	C	TRP	D	455	37.504	63.358	61.486	1.00	16.65	D	C
	ATOM	2730	O	TRP	D	455	37.637	62.800	62.567	1.00	19.60	D	O
	ATOM	2731	N	MET	D	456	36.769	62.875	60.489	1.00	16.50	D	N
25	ATOM	2732	CA	MET	D	456	36.051	61.618	60.589	1.00	16.13	D	C
	ATOM	2733	CB	MET	D	456	34.555	61.866	60.758	1.00	16.06	D	C
	ATOM	2734	CG	MET	D	456	34.199	62.540	62.068	1.00	12.86	D	C
	ATOM	2735	SD	MET	D	456	32.433	62.804	62.213	1.00	18.93	D	S
	ATOM	2736	CE	MET	D	456	31.781	61.099	61.899	1.00	11.91	D	C
30	ATOM	2737	C	MET	D	456	36.292	60.842	59.305	1.00	16.85	D	C
	ATOM	2738	O	MET	D	456	36.773	61.392	58.318	1.00	17.09	D	O
	ATOM	2739	N	ILE	D	457	35.976	59.557	59.327	1.00	16.90	D	N
	ATOM	2740	CA	ILE	D	457	36.141	58.725	58.150	1.00	16.40	D	C
	ATOM	2741	CB	ILE	D	457	37.133	57.554	58.415	1.00	16.58	D	C
	ATOM	2742	CG2	ILE	D	457	36.902	56.413	57.449	1.00	11.27	D	C
35	ATOM	2743	CG1	ILE	D	457	38.563	58.047	58.187	1.00	20.09	D	C
	ATOM	2744	CD1	ILE	D	457	39.345	58.090	59.418	1.00	22.94	D	C
	ATOM	2745	C	ILE	D	457	34.773	58.180	57.781	1.00	15.71	D	C
	ATOM	2746	O	ILE	D	457	34.030	57.715	58.637	1.00	15.68	D	O
40	ATOM	2747	N	GLN	D	458	34.419	58.286	56.507	1.00	15.78	D	N
	ATOM	2748	CA	GLN	D	458	33.144	57.743	56.064	1.00	14.49	D	C
	ATOM	2749	CB	GLN	D	458	32.354	58.778	55.275	1.00	12.07	D	C
	ATOM	2750	CG	GLN	D	458	33.007	59.176	53.963	1.00	16.80	D	C
	ATOM	2751	CD	GLN	D	458	32.250	60.282	53.245	1.00	21.18	D	C
45	ATOM	2752	OE1	GLN	D	458	31.471	61.024	53.852	1.00	18.97	D	O
	ATOM	2753	NE2	GLN	D	458	32.477	60.398	51.945	1.00	21.28	D	N
	ATOM	2754	C	GLN	D	458	33.444	56.555	55.169	1.00	13.42	D	C
	ATOM	2755	O	GLN	D	458	34.371	56.606	54.360	1.00	12.92	D	O
	ATOM	2756	N	VAL	D	459	32.708	55.468	55.349	1.00	11.67	D	N
50	ATOM	2757	CA	VAL	D	459	32.900	54.346	54.474	1.00	14.12	D	C
	ATOM	2758	CB	VAL	D	459	33.456	53.068	55.199	1.00	17.71	D	C
	ATOM	2759	CG1	VAL	D	459	34.069	53.444	56.537	1.00	21.26	D	C
	ATOM	2760	CG2	VAL	D	459	32.420	52.008	55.312	1.00	19.35	D	C
	ATOM	2761	C	VAL	D	459	31.567	54.127	53.780	1.00	14.74	D	C
55	ATOM	2762	O	VAL	D	459	30.550	53.838	54.400	1.00	12.74	D	O
	ATOM	2763	N	PRO	D	460	31.551	54.360	52.463	1.00	16.31	D	N
	ATOM	2764	CD	PRO	D	460	32.722	54.834	51.696	1.00	16.92	D	C
	ATOM	2765	CA	PRO	D	460	30.360	54.209	51.619	1.00	13.54	D	C
	ATOM	2766	CB	PRO	D	460	30.824	54.726	50.248	1.00	14.70	D	C
60	ATOM	2767	CG	PRO	D	460	32.086	55.549	50.538	1.00	16.59	D	C
	ATOM	2768	C	PRO	D	460	29.888	52.769	51.570	1.00	13.43	D	C
	ATOM	2769	O	PRO	D	460	30.699	51.851	51.528	1.00	15.88	D	O
	ATOM	2770	N	ARG	D	461	28.576	52.566	51.585	1.00	13.61	D	N
	ATOM	2771	CA	ARG	D	461	28.027	51.216	51.536	1.00	16.73	D	C
65	ATOM	2772	CB	ARG	D	461	26.671	51.172	52.248	1.00	14.82	D	C
	ATOM	2773	CG	ARG	D	461	26.683	51.778	53.664	1.00	16.64	D	C
	ATOM	2774	CD	ARG	D	461	25.387	51.463	54.423	1.00	15.31	D	C
	ATOM	2775	NE	ARG	D	461	24.245	52.223	53.913	1.00	15.89	D	N
	ATOM	2776	CZ	ARG	D	461	23.996	53.501	54.197	1.00	13.88	D	C

5	ATOM	2777	NH1	ARG	D	461	24.802	54.185	54.998	1.00	14.86	D	N
	ATOM	2778	NH2	ARG	D	461	22.947	54.111	53.658	1.00	18.05	D	N
	ATOM	2779	C	ARG	D	461	27.884	50.793	50.064	1.00	18.93	D	C
	ATOM	2780	O	ARG	D	461	26.782	50.707	49.522	1.00	21.28	D	O
	ATOM	2781	N	ILE	D	462	29.011	50.522	49.418	1.00	19.32	D	N
	ATOM	2782	CA	ILE	D	462	28.980	50.142	48.017	1.00	19.86	D	C
	ATOM	2783	CB	ILE	D	462	29.556	51.282	47.117	1.00	20.02	D	C
	ATOM	2784	CG2	ILE	D	462	28.777	52.565	47.358	1.00	17.52	D	C
10	ATOM	2785	CG1	ILE	D	462	31.048	51.504	47.412	1.00	18.15	D	C
	ATOM	2786	CD1	ILE	D	462	31.665	52.675	46.676	1.00	15.17	D	C
	ATOM	2787	C	ILE	D	462	29.730	48.857	47.730	1.00	19.78	D	C
	ATOM	2788	O	ILE	D	462	30.449	48.770	46.741	1.00	19.68	D	O
15	ATOM	2789	N	TYR	D	463	29.558	47.863	48.594	1.00	18.49	D	N
	ATOM	2790	CA	TYR	D	463	30.221	46.588	48.394	1.00	18.39	D	C
	ATOM	2791	CB	TYR	D	463	29.834	45.605	49.506	1.00	17.14	D	C
	ATOM	2792	CG	TYR	D	463	29.885	44.151	49.084	1.00	14.29	D	C
20	ATOM	2793	CD1	TYR	D	463	31.074	43.424	49.164	1.00	15.10	D	C
	ATOM	2794	CE1	TYR	D	463	31.135	42.092	48.742	1.00	14.03	D	C
	ATOM	2795	CD2	TYR	D	463	28.747	43.512	48.575	1.00	12.71	D	C
	ATOM	2796	CE2	TYR	D	463	28.795	42.180	48.150	1.00	14.62	D	C
25	ATOM	2797	CZ	TYR	D	463	29.992	41.477	48.235	1.00	16.00	D	C
	ATOM	2798	OH	TYR	D	463	30.051	40.166	47.801	1.00	18.71	D	O
	ATOM	2799	C	TYR	D	463	29.812	46.007	47.040	1.00	20.29	D	C
	ATOM	2800	O	TYR	D	463	30.625	45.400	46.344	1.00	19.55	D	O
30	ATOM	2801	N	ASP	D	464	28.544	46.189	46.675	1.00	21.92	D	N
	ATOM	2802	CA	ASP	D	464	28.034	45.646	45.421	1.00	22.39	D	C
	ATOM	2803	CB	ASP	D	464	26.532	45.916	45.275	1.00	20.18	D	C
	ATOM	2804	CG	ASP	D	464	26.163	47.368	45.524	1.00	26.23	D	C
35	ATOM	2805	OD1	ASP	D	464	25.059	47.767	45.111	1.00	32.85	D	O
	ATOM	2806	OD2	ASP	D	464	26.951	48.119	46.132	1.00	26.48	D	O
	ATOM	2807	C	ASP	D	464	28.799	46.200	44.232	1.00	22.27	D	C
	ATOM	2808	O	ASP	D	464	29.092	45.475	43.293	1.00	24.15	D	O
40	ATOM	2809	N	VAL	D	465	29.144	47.477	44.286	1.00	21.69	D	N
	ATOM	2810	CA	VAL	D	465	29.892	48.095	43.209	1.00	22.03	D	C
	ATOM	2811	CB	VAL	D	465	30.092	49.596	43.486	1.00	21.75	D	C
	ATOM	2812	CG1	VAL	D	465	31.003	50.211	42.454	1.00	22.93	D	C
45	ATOM	2813	CG2	VAL	D	465	28.759	50.300	43.469	1.00	19.46	D	C
	ATOM	2814	C	VAL	D	465	31.254	47.405	43.061	1.00	26.24	D	C
	ATOM	2815	O	VAL	D	465	31.635	46.991	41.960	1.00	25.35	D	O
	ATOM	2816	N	PHE	D	466	31.983	47.282	44.170	1.00	26.09	D	N
50	ATOM	2817	CA	PHE	D	466	33.297	46.640	44.166	1.00	25.80	D	C
	ATOM	2818	CB	PHE	D	466	33.983	46.808	45.521	1.00	25.60	D	C
	ATOM	2819	CG	PHE	D	466	34.279	48.230	45.875	1.00	27.47	D	C
	ATOM	2820	CD1	PHE	D	466	34.617	49.150	44.890	1.00	28.72	D	C
55	ATOM	2821	CD2	PHE	D	466	34.208	48.660	47.195	1.00	30.91	D	C
	ATOM	2822	CE1	PHE	D	466	34.883	50.487	45.211	1.00	29.02	D	C
	ATOM	2823	CE2	PHE	D	466	34.472	49.991	47.528	1.00	30.68	D	C
	ATOM	2824	CZ	PHE	D	466	34.808	50.906	46.533	1.00	30.53	D	C
60	ATOM	2825	C	PHE	D	466	33.211	45.157	43.848	1.00	25.78	D	C
	ATOM	2826	O	PHE	D	466	34.102	44.617	43.207	1.00	27.65	D	O
	ATOM	2827	N	ARG	D	467	32.150	44.501	44.308	1.00	24.82	D	N
	ATOM	2828	CA	ARG	D	467	31.973	43.079	44.062	1.00	24.98	D	C
65	ATOM	2829	CB	ARG	D	467	30.767	42.547	44.840	1.00	25.55	D	C
	ATOM	2830	CG	ARG	D	467	30.457	41.078	44.584	1.00	25.43	D	C
	ATOM	2831	CD	ARG	D	467	31.695	40.220	44.786	1.00	30.68	D	C
	ATOM	2832	NE	ARG	D	467	31.411	38.800	44.599	1.00	36.26	D	N
70	ATOM	2833	CZ	ARG	D	467	31.058	38.249	43.439	1.00	39.41	D	C
	ATOM	2834	NH1	ARG	D	467	30.944	38.999	42.351	1.00	40.17	D	N
	ATOM	2835	NH2	ARG	D	467	30.813	36.945	43.360	1.00	41.32	D	N
	ATOM	2836	C	ARG	D	467	31.770	42.798	42.578	1.00	26.50	D	C
75	ATOM	2837	O	ARG	D	467	32.397	41.902	42.017	1.00	25.17	D	O
	ATOM	2838	N	SER	D	468	30.899	43.572	41.944	1.00	25.45	D	N
	ATOM	2839	CA	SER	D	468	30.602	43.374	40.539	1.00	27.67	D	C
	ATOM	2840	CB	SER	D	468	29.396	44.213	40.138	1.00	26.95	D	C
80	ATOM	2841	OG	SER	D	468	29.688	45.584	40.279	1.00	36.11	D	O
	ATOM	2842	C	SER	D	468	31.799	43.692	39.656	1.00	28.51	D	C
	ATOM	2843	O	SER	D	468	31.889	43.211	38.528	1.00	30.09	D	O
	ATOM	2844	N	LYS	D	469	32.718	44.499	40.175	1.00	27.90	D	N

	ATOM	2845	CA	LYS	D	469	33.952	44.855	39.468	1.00	26.23	D	C
	ATOM	2846	CB	LYS	D	469	34.421	46.240	39.883	1.00	27.42	D	C
	ATOM	2847	CG	LYS	D	469	33.975	47.361	38.996	1.00	34.06	D	C
5	ATOM	2848	CD	LYS	D	469	34.577	48.673	39.485	1.00	37.92	D	C
	ATOM	2849	CE	LYS	D	469	33.812	49.879	38.945	1.00	42.49	D	C
	ATOM	2850	NZ	LYS	D	469	32.320	49.723	39.037	1.00	45.55	D	N
	ATOM	2851	C	LYS	D	469	35.039	43.858	39.886	1.00	26.89	D	C
	ATOM	2852	O	LYS	D	469	36.206	43.994	39.510	1.00	24.63	D	O
10	ATOM	2853	N	ASN	D	470	34.650	42.877	40.697	1.00	25.94	D	N
	ATOM	2854	CA	ASN	D	470	35.578	41.869	41.185	1.00	28.86	D	C
	ATOM	2855	CB	ASN	D	470	36.044	40.976	40.037	1.00	31.47	D	C
	ATOM	2856	CG	ASN	D	470	34.895	40.309	39.341	1.00	32.89	D	C
	ATOM	2857	OD1	ASN	D	470	34.155	39.536	39.951	1.00	33.24	D	O
15	ATOM	2858	ND2	ASN	D	470	34.721	40.613	38.058	1.00	33.69	D	N
	ATOM	2859	C	ASN	D	470	36.774	42.481	41.896	1.00	29.17	D	C
	ATOM	2860	O	ASN	D	470	37.908	42.023	41.752	1.00	27.94	D	O
	ATOM	2861	N	PHE	D	471	36.510	43.537	42.657	1.00	29.58	D	N
	ATOM	2862	CA	PHE	D	471	37.543	44.185	43.442	1.00	28.72	D	C
20	ATOM	2863	CB	PHE	D	471	37.204	45.651	43.671	1.00	29.79	D	C
	ATOM	2864	CG	PHE	D	471	37.668	46.565	42.575	1.00	32.72	D	C
	ATOM	2865	CD1	PHE	D	471	38.414	46.084	41.504	1.00	34.05	D	C
	ATOM	2866	CD2	PHE	D	471	37.356	47.915	42.613	1.00	34.65	D	C
	ATOM	2867	CE1	PHE	D	471	38.839	46.935	40.487	1.00	33.84	D	C
25	ATOM	2868	CE2	PHE	D	471	37.777	48.774	41.601	1.00	36.39	D	C
	ATOM	2869	CZ	PHE	D	471	38.520	48.281	40.537	1.00	35.17	D	C
	ATOM	2870	C	PHE	D	471	37.586	43.457	44.786	1.00	29.40	D	C
	ATOM	2871	O	PHE	D	471	38.568	43.569	45.521	1.00	30.61	D	O
	ATOM	2872	N	LEU	D	472	36.519	42.709	45.087	1.00	26.25	D	N
30	ATOM	2873	CA	LEU	D	472	36.391	41.942	46.329	1.00	26.69	D	C
	ATOM	2874	CB	LEU	D	472	35.618	42.740	47.399	1.00	26.87	D	C
	ATOM	2875	CG	LEU	D	472	36.042	44.172	47.747	1.00	27.21	D	C
	ATOM	2876	CD1	LEU	D	472	34.904	44.876	48.449	1.00	26.64	D	C
	ATOM	2877	CD2	LEU	D	472	37.283	44.161	48.632	1.00	24.11	D	C
35	ATOM	2878	C	LEU	D	472	35.635	40.644	46.086	1.00	25.59	D	C
	ATOM	2879	O	LEU	D	472	34.760	40.588	45.224	1.00	26.21	D	O
	ATOM	2880	N	PRO	D	473	35.950	39.586	46.862	1.00	25.52	D	N
	ATOM	2881	CD	PRO	D	473	37.020	39.590	47.877	1.00	24.25	D	C
	ATOM	2882	CA	PRO	D	473	35.311	38.268	46.754	1.00	23.30	D	C
40	ATOM	2883	CB	PRO	D	473	36.395	37.314	47.239	1.00	23.57	D	C
	ATOM	2884	CG	PRO	D	473	37.163	38.124	48.254	1.00	23.97	D	C
	ATOM	2885	C	PRO	D	473	34.033	38.123	47.576	1.00	25.29	D	C
	ATOM	2886	O	PRO	D	473	33.138	37.339	47.224	1.00	24.27	D	O
	ATOM	2887	N	HIS	D	474	33.956	38.876	48.677	1.00	24.18	D	N
45	ATOM	2888	CA	HIS	D	474	32.805	38.811	49.592	1.00	21.49	D	C
	ATOM	2889	CB	HIS	D	474	32.852	37.500	50.403	1.00	17.77	D	C
	ATOM	2890	CG	HIS	D	474	34.156	37.276	51.103	1.00	20.63	D	C
	ATOM	2891	CD2	HIS	D	474	34.808	38.013	52.034	1.00	21.46	D	C
	ATOM	2892	ND1	HIS	D	474	34.989	36.221	50.800	1.00	22.45	D	N
50	ATOM	2893	CE1	HIS	D	474	36.099	36.320	51.512	1.00	22.11	D	C
	ATOM	2894	NE2	HIS	D	474	36.015	37.399	52.268	1.00	21.79	D	N
	ATOM	2895	C	HIS	D	474	32.813	40.015	50.546	1.00	22.36	D	C
	ATOM	2896	O	HIS	D	474	33.740	40.832	50.523	1.00	18.53	D	O
	ATOM	2897	N	PHE	D	475	31.797	40.112	51.403	1.00	23.17	D	N
55	ATOM	2898	CA	PHE	D	475	31.711	41.245	52.328	1.00	21.90	D	C
	ATOM	2899	CB	PHE	D	475	30.323	41.311	52.966	1.00	20.86	D	C
	ATOM	2900	CG	PHE	D	475	30.035	42.623	53.624	1.00	20.30	D	C
	ATOM	2901	CD1	PHE	D	475	29.874	42.702	54.997	1.00	20.21	D	C
	ATOM	2902	CD2	PHE	D	475	29.944	43.791	52.867	1.00	18.37	D	C
60	ATOM	2903	CE1	PHE	D	475	29.624	43.935	55.615	1.00	19.79	D	C
	ATOM	2904	CE2	PHE	D	475	29.696	45.025	53.471	1.00	19.63	D	C
	ATOM	2905	CZ	PHE	D	475	29.535	45.096	54.854	1.00	17.95	D	C
	ATOM	2906	C	PHE	D	475	32.775	41.252	53.419	1.00	20.38	D	C
	ATOM	2907	O	PHE	D	475	33.191	42.317	53.877	1.00	19.90	D	O
65	ATOM	2908	N	GLY	D	476	33.212	40.061	53.826	1.00	20.23	D	N
	ATOM	2909	CA	GLY	D	476	34.226	39.951	54.858	1.00	17.16	D	C
	ATOM	2910	C	GLY	D	476	35.511	40.654	54.476	1.00	18.90	D	C
	ATOM	2911	O	GLY	D	476	36.188	41.251	55.323	1.00	18.85	D	O
	ATOM	2912	N	LYS	D	477	35.861	40.596	53.195	1.00	18.96	D	N

5	ATOM	2913	CA	LYS	D	477	37.087	41.239	52.743	1.00	16.90	D	C
	ATOM	2914	CB	LYS	D	477	37.440	40.766	51.339	1.00	18.20	D	C
	ATOM	2915	CG	LYS	D	477	38.745	41.326	50.825	1.00	19.93	D	C
	ATOM	2916	CD	LYS	D	477	39.945	40.690	51.508	1.00	23.55	D	C
	ATOM	2917	CE	LYS	D	477	41.190	41.553	51.283	1.00	26.87	D	C
	ATOM	2918	NZ	LYS	D	477	42.440	40.884	51.720	1.00	29.81	D	N
	ATOM	2919	C	LYS	D	477	36.977	42.765	52.789	1.00	16.89	D	C
	ATOM	2920	O	LYS	D	477	37.980	43.463	52.973	1.00	15.94	D	O
10	ATOM	2921	N	MET	D	478	35.765	43.293	52.622	1.00	16.72	D	N
	ATOM	2922	CA	MET	D	478	35.592	44.742	52.695	1.00	17.24	D	C
	ATOM	2923	CB	MET	D	478	34.192	45.153	52.257	1.00	17.23	D	C
	ATOM	2924	CG	MET	D	478	34.059	46.667	52.117	1.00	17.25	D	C
	ATOM	2925	SD	MET	D	478	32.412	47.203	51.563	1.00	19.52	D	S
15	ATOM	2926	CE	MET	D	478	32.548	48.970	51.711	1.00	18.10	D	C
	ATOM	2927	C	MET	D	478	35.810	45.199	54.144	1.00	17.57	D	C
	ATOM	2928	O	MET	D	478	36.497	46.198	54.405	1.00	15.20	D	O
	ATOM	2929	N	LEU	D	479	35.217	44.445	55.075	1.00	16.48	D	N
20	ATOM	2930	CA	LEU	D	479	35.326	44.738	56.500	1.00	15.60	D	C
	ATOM	2931	CB	LEU	D	479	34.478	43.751	57.313	1.00	13.16	D	C
	ATOM	2932	CG	LEU	D	479	32.953	43.952	57.290	1.00	11.03	D	C
	ATOM	2933	CD1	LEU	D	479	32.281	42.835	58.077	1.00	8.61	D	C
	ATOM	2934	CD2	LEU	D	479	32.589	45.289	57.880	1.00	7.22	D	C
	ATOM	2935	C	LEU	D	479	36.784	44.645	56.899	1.00	15.13	D	C
25	ATOM	2936	O	LEU	D	479	37.278	45.466	57.679	1.00	15.57	D	O
	ATOM	2937	N	GLU	D	480	37.484	43.658	56.346	1.00	16.46	D	N
	ATOM	2938	CA	GLU	D	480	38.900	43.497	56.644	1.00	16.21	D	C
	ATOM	2939	CB	GLU	D	480	39.432	42.182	56.060	1.00	15.16	D	C
	ATOM	2940	CG	GLU	D	480	40.925	42.002	56.276	1.00	21.30	D	C
30	ATOM	2941	CD	GLU	D	480	41.416	40.601	55.976	1.00	26.60	D	C
	ATOM	2942	OE1	GLU	D	480	40.610	39.755	55.534	1.00	32.64	D	O
	ATOM	2943	OE2	GLU	D	480	42.618	40.340	56.182	1.00	31.20	D	O
	ATOM	2944	C	GLU	D	480	39.743	44.680	56.135	1.00	15.90	D	C
	ATOM	2945	O	GLU	D	480	40.656	45.128	56.825	1.00	16.71	D	O
	ATOM	2946	N	ASN	D	481	39.435	45.202	54.947	1.00	17.50	D	N
35	ATOM	2947	CA	ASN	D	481	40.199	46.325	54.400	1.00	17.75	D	C
	ATOM	2948	CB	ASN	D	481	39.828	46.578	52.940	1.00	18.60	D	C
	ATOM	2949	CG	ASN	D	481	40.256	45.442	52.022	1.00	23.81	D	C
	ATOM	2950	OD1	ASN	D	481	39.691	45.262	50.936	1.00	23.78	D	O
	ATOM	2951	ND2	ASN	D	481	41.255	44.676	52.447	1.00	18.58	D	N
40	ATOM	2952	C	ASN	D	481	39.949	47.593	55.197	1.00	17.38	D	C
	ATOM	2953	O	ASN	D	481	40.842	48.429	55.356	1.00	14.56	D	O
	ATOM	2954	N	VAL	D	482	38.723	47.731	55.700	1.00	17.32	D	N
	ATOM	2955	CA	VAL	D	482	38.357	48.910	56.485	1.00	16.40	D	C
	ATOM	2956	CB	VAL	D	482	36.815	49.038	56.647	1.00	13.83	D	C
45	ATOM	2957	CG1	VAL	D	482	36.483	50.265	57.507	1.00	12.25	D	C
	ATOM	2958	CG2	VAL	D	482	36.145	49.166	55.285	1.00	12.82	D	C
	ATOM	2959	C	VAL	D	482	38.960	48.925	57.893	1.00	16.00	D	C
	ATOM	2960	O	VAL	D	482	39.502	49.945	58.333	1.00	16.03	D	O
	ATOM	2961	N	PHE	D	483	38.885	47.790	58.587	1.00	15.82	D	N
50	ATOM	2962	CA	PHE	D	483	39.356	47.722	59.970	1.00	15.88	D	C
	ATOM	2963	CB	PHE	D	483	38.282	47.027	60.815	1.00	14.96	D	C
	ATOM	2964	CG	PHE	D	483	36.992	47.792	60.894	1.00	12.95	D	C
	ATOM	2965	CD1	PHE	D	483	36.944	49.006	61.554	1.00	10.45	D	C
	ATOM	2966	CD2	PHE	D	483	35.834	47.307	60.279	1.00	11.18	D	C
55	ATOM	2967	CE1	PHE	D	483	35.762	49.745	61.607	1.00	11.71	D	C
	ATOM	2968	CE2	PHE	D	483	34.647	48.034	60.324	1.00	10.67	D	C
	ATOM	2969	CZ	PHE	D	483	34.614	49.261	60.993	1.00	11.50	D	C
	ATOM	2970	C	PHE	D	483	40.719	47.132	60.325	1.00	14.80	D	C
	ATOM	2971	O	PHE	D	483	41.378	47.642	61.221	1.00	16.27	D	O
60	ATOM	2972	N	MET	D	484	41.149	46.079	59.640	1.00	17.62	D	N
	ATOM	2973	CA	MET	D	484	42.426	45.434	59.965	1.00	20.81	D	C
	ATOM	2974	CB	MET	D	484	42.706	44.292	58.981	1.00	24.22	D	C
	ATOM	2975	CG	MET	D	484	43.882	43.397	59.378	1.00	26.74	D	C
	ATOM	2976	SD	MET	D	484	43.587	42.384	60.858	1.00	25.88	D	S
65	ATOM	2977	CE	MET	D	484	42.549	41.109	60.206	1.00	24.47	D	C
	ATOM	2978	C	MET	D	484	43.644	46.347	60.034	1.00	20.88	D	C
	ATOM	2979	O	MET	D	484	44.437	46.257	60.966	1.00	23.73	D	O
	ATOM	2980	N	PRO	D	485	43.824	47.228	59.043	1.00	21.67	D	N

	ATOM	2981	CD	PRO	D	485	43.025	47.470	57.826	1.00	20.81	D	C
	ATOM	2982	CA	PRO	D	485	44.994	48.102	59.112	1.00	18.91	D	C
	ATOM	2983	CB	PRO	D	485	44.905	48.926	57.825	1.00	19.19	D	C
5	ATOM	2984	CG	PRO	D	485	44.013	48.119	56.906	1.00	19.37	D	C
	ATOM	2985	C	PRO	D	485	44.987	48.978	60.357	1.00	21.09	D	C
	ATOM	2986	O	PRO	D	485	46.049	49.295	60.906	1.00	20.59	D	O
	ATOM	2987	N	VAL	D	486	43.789	49.360	50.801	1.00	19.94	D	N
	ATOM	2988	CA	VAL	D	486	43.644	50.218	61.971	1.00	20.41	D	C
10	ATOM	2989	CB	VAL	D	486	42.227	50.820	62.030	1.00	22.37	D	C
	ATOM	2990	CG1	VAL	D	486	42.071	51.675	63.264	1.00	22.30	D	C
	ATOM	2991	CG2	VAL	D	486	41.996	51.670	60.806	1.00	20.29	D	C
	ATOM	2992	C	VAL	D	486	43.956	49.435	63.245	1.00	19.90	D	C
	ATOM	2993	O	VAL	D	486	44.550	49.970	64.182	1.00	21.12	D	O
15	ATOM	2994	N	PHE	D	487	43.557	48.168	63.278	1.00	19.85	D	N
	ATOM	2995	CA	PHE	D	487	43.855	47.305	64.418	1.00	20.72	D	C
	ATOM	2996	CB	PHE	D	487	43.139	45.965	64.284	1.00	19.47	D	C
	ATOM	2997	CG	PHE	D	487	41.774	45.934	64.918	1.00	21.16	D	C
	ATOM	2998	CD1	PHE	D	487	40.644	46.297	64.187	1.00	19.13	D	C
20	ATOM	2999	CD2	PHE	D	487	41.615	45.537	66.244	1.00	18.71	D	C
	ATOM	3000	CE1	PHE	D	487	39.372	46.266	64.770	1.00	19.86	D	C
	ATOM	3001	CE2	PHE	D	487	40.347	45.502	66.838	1.00	18.24	D	C
	ATOM	3002	CZ	PHE	D	487	39.225	45.866	66.103	1.00	17.53	D	C
	ATOM	3003	C	PHE	D	487	45.366	47.052	64.439	1.00	24.49	D	C
25	ATOM	3004	O	PHE	D	487	45.980	46.977	65.503	1.00	25.52	D	O
	ATOM	3005	N	GLU	D	488	45.963	46.916	63.253	1.00	24.57	D	N
	ATOM	3006	CA	GLU	D	488	47.402	46.678	63.140	1.00	23.86	D	C
	ATOM	3007	CB	GLU	D	488	47.786	46.416	61.690	1.00	26.76	D	C
	ATOM	3008	CG	GLU	D	488	48.065	44.975	61.399	1.00	33.65	D	C
30	ATOM	3009	CD	GLU	D	488	47.805	44.636	59.949	1.00	40.04	D	C
	ATOM	3010	OE1	GLU	D	488	47.935	45.557	59.102	1.00	38.42	D	O
	ATOM	3011	OE2	GLU	D	488	47.474	43.454	59.661	1.00	42.95	D	O
	ATOM	3012	C	GLU	D	488	48.222	47.848	63.654	1.00	23.44	D	C
	ATOM	3013	O	GLU	D	488	49.257	47.651	64.289	1.00	21.64	D	O
35	ATOM	3014	N	ALA	D	489	47.774	49.065	63.360	1.00	19.57	D	N
	ATOM	3015	CA	ALA	D	489	48.490	50.245	63.813	1.00	21.79	D	C
	ATOM	3016	CB	ALA	D	489	47.962	51.504	63.090	1.00	18.51	D	C
	ATOM	3017	C	ALA	D	489	48.334	50.391	65.332	1.00	22.00	D	C
	ATOM	3018	O	ALA	D	489	49.206	50.934	65.996	1.00	22.33	D	O
40	ATOM	3019	N	THR	D	490	47.222	49.896	65.870	1.00	22.47	D	N
	ATOM	3020	CA	THR	D	490	46.948	49.982	67.301	1.00	24.55	D	C
	ATOM	3021	CB	THR	D	490	45.483	49.611	67.588	1.00	22.90	D	C
	ATOM	3022	OG1	THR	D	490	44.624	50.614	67.019	1.00	23.87	D	O
	ATOM	3023	CG2	THR	D	490	45.241	49.518	69.091	1.00	21.52	D	C
45	ATOM	3024	C	THR	D	490	47.870	49.057	68.102	1.00	25.88	D	C
	ATOM	3025	O	THR	D	490	48.462	49.440	69.118	1.00	26.05	D	O
	ATOM	3026	N	ILE	D	491	47.982	47.834	67.616	1.00	24.61	D	N
	ATOM	3027	CA	ILE	D	491	48.807	46.817	68.220	1.00	24.62	D	C
	ATOM	3028	CB	ILE	D	491	48.407	45.461	67.607	1.00	25.05	D	C
50	ATOM	3029	CG2	ILE	D	491	49.551	44.802	66.894	1.00	30.60	D	C
	ATOM	3030	CG1	ILE	D	491	47.849	44.583	68.699	1.00	29.80	D	C
	ATOM	3031	CD1	ILE	D	491	46.358	44.573	68.705	1.00	28.90	D	C
	ATOM	3032	C	ILE	D	491	50.302	47.133	68.044	1.00	25.11	D	C
	ATOM	3033	O	ILE	D	491	51.096	46.935	68.956	1.00	26.04	D	O
55	ATOM	3034	N	ASN	D	492	50.676	47.657	66.881	1.00	25.43	D	N
	ATOM	3035	CA	ASN	D	492	52.066	47.991	66.599	1.00	24.48	D	C
	ATOM	3036	CB	ASN	D	492	52.634	47.011	65.579	1.00	24.89	D	C
	ATOM	3037	CG	ASN	D	492	52.532	45.585	66.047	1.00	27.12	D	C
	ATOM	3038	OD1	ASN	D	492	52.920	45.266	67.174	1.00	27.97	D	O
60	ATOM	3039	ND2	ASN	D	492	51.999	44.712	65.195	1.00	24.14	D	N
	ATOM	3040	C	ASN	D	492	52.205	49.402	66.058	1.00	24.27	D	C
	ATOM	3041	O	ASN	D	492	52.485	49.594	64.877	1.00	27.14	D	O
	ATOM	3042	N	PRO	D	493	52.053	50.410	66.926	1.00	23.74	D	N
	ATOM	3043	CD	PRO	D	493	51.788	50.287	68.368	1.00	22.64	D	C
65	ATOM	3044	CA	PRO	D	493	52.161	51.811	66.504	1.00	24.66	D	C
	ATOM	3045	CB	PRO	D	493	51.883	52.601	67.784	1.00	21.11	D	C
	ATOM	3046	CG	PRO	D	493	51.227	51.614	68.718	1.00	20.03	D	C
	ATOM	3047	C	PRO	D	493	53.505	52.186	65.890	1.00	26.30	D	C
	ATOM	3048	O	PRO	D	493	53.581	53.026	64.991	1.00	26.78	D	O

	ATOM	3049	N	GLN	D	494	54.566	51.571	66.387	1.00	26.41	D	N
	ATOM	3050	CA	GLN	D	494	55.897	51.866	65.894	1.00	28.94	D	C
	ATOM	3051	CB	GLN	D	494	56.922	51.251	66.828	1.00	33.45	D	C
	ATOM	3052	CG	GLN	D	494	56.703	51.642	68.270	1.00	37.23	D	C
5	ATOM	3053	CD	GLN	D	494	57.349	52.959	68.600	1.00	39.68	D	C
	ATOM	3054	OE1	GLN	D	494	58.018	53.087	69.620	1.00	47.18	D	O
	ATOM	3055	NE2	GLN	D	494	57.160	53.949	67.737	1.00	41.96	D	N
	ATOM	3056	C	GLN	D	494	56.117	51.370	64.469	1.00	29.03	D	C
10	ATOM	3057	O	GLN	D	494	56.900	51.953	63.719	1.00	28.18	D	O
	ATOM	3058	N	ALA	D	495	55.428	50.294	64.102	1.00	28.12	D	N
	ATOM	3059	CA	ALA	D	495	55.539	49.737	62.764	1.00	25.99	D	C
	ATOM	3060	CB	ALA	D	495	55.030	48.308	62.752	1.00	25.41	D	C
	ATOM	3061	C	ALA	D	495	54.740	50.595	61.777	1.00	28.67	D	C
	ATOM	3062	O	ALA	D	495	55.032	50.605	60.577	1.00	30.86	D	O
15	ATOM	3063	N	HIS	D	496	53.743	51.323	62.286	1.00	27.05	D	N
	ATOM	3064	CA	HIS	D	496	52.903	52.190	61.454	1.00	24.32	D	C
	ATOM	3065	CB	HIS	D	496	51.523	51.567	61.311	1.00	24.38	D	C
	ATOM	3066	CG	HIS	D	496	51.561	50.095	61.055	1.00	25.98	D	C
	ATOM	3067	CD2	HIS	D	496	51.396	49.041	61.889	1.00	27.28	D	C
20	ATOM	3068	ND1	HIS	D	496	51.796	49.564	59.806	1.00	28.06	D	N
	ATOM	3069	CE1	HIS	D	496	51.772	48.244	59.880	1.00	27.15	D	C
	ATOM	3070	NE2	HIS	D	496	51.531	47.901	61.134	1.00	27.52	D	N
	ATOM	3071	C	HIS	D	496	52.777	53.578	62.071	1.00	23.14	D	C
	ATOM	3072	O	HIS	D	496	51.700	53.990	62.487	1.00	24.05	D	O
25	ATOM	3073	N	PRO	D	497	53.876	54.329	62.095	1.00	21.09	D	N
	ATOM	3074	CD	PRO	D	497	55.172	53.937	61.513	1.00	23.27	D	C
	ATOM	3075	CA	PRO	D	497	53.914	55.671	62.665	1.00	23.02	D	C
	ATOM	3076	CB	PRO	D	497	55.389	56.049	62.583	1.00	24.23	D	C
	ATOM	3077	CG	PRO	D	497	55.929	55.225	61.458	1.00	21.50	D	C
30	ATOM	3078	C	PRO	D	497	53.021	56.716	62.014	1.00	24.95	D	C
	ATOM	3079	O	PRO	D	497	52.393	57.516	62.711	1.00	28.13	D	O
	ATOM	3080	N	GLU	D	498	52.966	56.733	60.687	1.00	25.32	D	N
	ATOM	3081	CA	GLU	D	498	52.139	57.719	60.003	1.00	24.51	D	C
	ATOM	3082	CB	GLU	D	498	52.453	57.753	58.502	1.00	23.97	D	C
35	ATOM	3083	CG	GLU	D	498	53.528	58.768	58.145	1.00	26.48	D	C
	ATOM	3084	CD	GLU	D	498	53.492	59.193	56.694	1.00	31.95	D	C
	ATOM	3085	OE1	GLU	D	498	53.180	58.351	55.822	1.00	34.39	D	O
	ATOM	3086	OE2	GLU	D	498	53.782	60.377	56.422	1.00	36.45	D	O
	ATOM	3087	C	GLU	D	498	50.671	57.415	60.229	1.00	22.24	D	C
40	ATOM	3088	O	GLU	D	498	49.882	58.316	60.527	1.00	22.26	D	O
	ATOM	3089	N	LEU	D	499	50.302	56.150	60.077	1.00	19.96	D	N
	ATOM	3090	CA	LEU	D	499	48.915	55.764	60.294	1.00	21.76	D	C
	ATOM	3091	CB	LEU	D	499	48.697	54.295	59.920	1.00	16.02	D	C
	ATOM	3092	CG	LEU	D	499	47.255	53.807	60.104	1.00	19.35	D	C
45	ATOM	3093	CD1	LEU	D	499	46.275	54.790	59.461	1.00	14.86	D	C
	ATOM	3094	CD2	LEU	D	499	47.099	52.415	59.498	1.00	20.02	D	C
	ATOM	3095	C	LEU	D	499	48.528	55.993	61.765	1.00	22.10	D	C
	ATOM	3096	O	LEU	D	499	47.407	56.404	62.061	1.00	22.81	D	O
	ATOM	3097	N	SER	D	500	49.466	55.741	62.676	1.00	20.87	D	N
50	ATOM	3098	CA	SER	D	500	49.221	55.922	64.103	1.00	19.25	D	C
	ATOM	3099	CB	SER	D	500	50.421	55.429	64.919	1.00	20.35	D	C
	ATOM	3100	OG	SER	D	500	50.521	54.013	64.877	1.00	17.47	D	O
	ATOM	3101	C	SER	D	500	48.954	57.383	64.422	1.00	19.77	D	C
	ATOM	3102	O	SER	D	500	48.089	57.693	65.238	1.00	20.85	D	O
55	ATOM	3103	N	VAL	D	501	49.692	58.283	63.779	1.00	18.96	D	N
	ATOM	3104	CA	VAL	D	501	49.505	59.713	64.005	1.00	19.51	D	C
	ATOM	3105	CB	VAL	D	501	50.660	60.532	63.361	1.00	17.23	D	C
	ATOM	3106	CG1	VAL	D	501	50.251	61.995	63.181	1.00	15.74	D	C
	ATOM	3107	CG2	VAL	D	501	51.882	60.453	64.246	1.00	15.59	D	C
60	ATOM	3108	C	VAL	D	501	48.149	60.181	63.442	1.00	20.88	D	C
	ATOM	3109	O	VAL	D	501	47.415	60.934	64.084	1.00	21.61	D	O
	ATOM	3110	N	PHE	D	502	47.831	59.720	62.241	1.00	19.70	D	N
	ATOM	3111	CA	PHE	D	502	46.592	60.068	61.576	1.00	18.20	D	C
	ATOM	3112	CB	PHE	D	502	46.554	59.353	60.216	1.00	19.03	D	C
65	ATOM	3113	CG	PHE	D	502	45.270	59.538	59.441	1.00	15.69	D	C
	ATOM	3114	CD1	PHE	D	502	44.786	60.809	59.154	1.00	15.45	D	C
	ATOM	3115	CD2	PHE	D	502	44.574	58.430	58.966	1.00	17.19	D	C
	ATOM	3116	CE1	PHE	D	502	43.617	60.984	58.399	1.00	18.37	D	C

	ATOM	3117	CE2	PHE	D	502	43.403	58.579	58.207	1.00	17.52	D	C
	ATOM	3118	CZ	PHE	D	502	42.922	59.864	57.921	1.00	18.60	D	C
	ATOM	3119	C	PHE	D	502	45.417	59.620	62.451	1.00	19.46	D	C
5	ATOM	3120	O	PHE	D	502	44.456	60.366	62.653	1.00	18.13	D	O
	ATOM	3121	N	LEU	D	503	45.509	58.403	62.982	1.00	18.60	D	N
	ATOM	3122	CA	LEU	D	503	44.443	57.864	63.814	1.00	17.60	D	C
	ATOM	3123	CB	LEU	D	503	44.790	56.441	64.235	1.00	16.03	D	C
	ATOM	3124	CG	LEU	D	503	44.580	55.415	63.118	1.00	16.18	D	C
10	ATOM	3125	CD1	LEU	D	503	45.040	54.034	63.586	1.00	14.27	D	C
	ATOM	3126	CD2	LEU	D	503	43.121	55.389	62.712	1.00	14.11	D	C
	ATOM	3127	C	LEU	D	503	44.129	58.736	65.036	1.00	18.10	D	C
	ATOM	3128	O	LEU	D	503	43.001	58.736	65.532	1.00	18.09	D	O
	ATOM	3129	N	LYS	D	504	45.117	59.489	65.506	1.00	17.77	D	N
15	ATOM	3130	CA	LYS	D	504	44.911	60.381	66.644	1.00	19.80	D	C
	ATOM	3131	CB	LYS	D	504	46.247	60.902	67.182	1.00	17.96	D	C
	ATOM	3132	CG	LYS	D	504	47.082	59.846	67.858	1.00	21.72	D	C
	ATOM	3133	CD	LYS	D	504	48.486	60.372	68.139	1.00	24.89	D	C
	ATOM	3134	CE	LYS	D	504	48.477	61.389	69.265	1.00	26.37	D	C
20	ATOM	3135	NZ	LYS	D	504	49.782	62.098	69.371	1.00	30.82	D	N
	ATOM	3136	C	LYS	D	504	44.057	61.577	66.234	1.00	19.68	D	C
	ATOM	3137	O	LYS	D	504	43.504	62.256	67.098	1.00	18.52	D	O
	ATOM	3138	N	HIS	D	505	43.970	61.841	64.925	1.00	18.82	D	N
	ATOM	3139	CA	HIS	D	505	43.189	62.965	64.405	1.00	13.28	D	C
25	ATOM	3140	CB	HIS	D	505	43.909	63.607	63.233	1.00	15.19	D	C
	ATOM	3141	CG	HIS	D	505	45.199	64.257	63.603	1.00	18.78	D	C
	ATOM	3142	CD2	HIS	D	505	46.406	63.731	63.915	1.00	19.63	D	C
	ATOM	3143	ND1	HIS	D	505	45.353	65.627	63.652	1.00	24.56	D	N
	ATOM	3144	CE1	HIS	D	505	46.601	65.918	63.976	1.00	24.09	D	C
30	ATOM	3145	NE2	HIS	D	505	47.261	64.784	64.142	1.00	22.03	D	N
	ATOM	3146	C	HIS	D	505	41.799	62.552	63.947	1.00	13.09	D	C
	ATOM	3147	O	HIS	D	505	41.019	63.388	63.499	1.00	12.90	D	O
	ATOM	3148	N	ILE	D	506	41.492	61.265	64.041	1.00	11.53	D	N
	ATOM	3149	CA	ILE	D	506	40.183	60.765	63.638	1.00	12.45	D	C
35	ATOM	3150	CB	ILE	D	506	40.289	59.372	62.984	1.00	10.42	D	C
	ATOM	3151	CG2	ILE	D	506	38.888	58.830	62.727	1.00	9.38	D	C
	ATOM	3152	CG1	ILE	D	506	41.116	59.448	61.687	1.00	8.75	D	C
	ATOM	3153	CD1	ILE	D	506	40.790	60.642	60.800	1.00	10.14	D	C
	ATOM	3154	C	ILE	D	506	39.283	60.651	64.869	1.00	16.38	D	C
40	ATOM	3155	O	ILE	D	506	39.646	60.004	65.849	1.00	16.54	D	O
	ATOM	3156	N	THR	D	507	38.098	61.259	64.815	1.00	17.47	D	N
	ATOM	3157	CA	THR	D	507	37.169	61.232	65.953	1.00	14.54	D	C
	ATOM	3158	CB	THR	D	507	36.524	62.627	66.180	1.00	13.89	D	C
	ATOM	3159	OG1	THR	D	507	35.599	62.900	65.117	1.00	15.34	D	O
45	ATOM	3160	CG2	THR	D	507	37.589	63.727	66.231	1.00	9.60	D	C
	ATOM	3161	C	THR	D	507	36.032	60.205	65.859	1.00	15.10	D	C
	ATOM	3162	O	THR	D	507	35.426	59.867	66.881	1.00	11.04	D	O
	ATOM	3163	N	GLY	D	508	35.740	59.720	64.647	1.00	12.42	D	N
	ATOM	3164	CA	GLY	D	508	34.663	58.759	64.474	1.00	11.35	D	C
50	ATOM	3165	C	GLY	D	508	34.495	58.259	63.052	1.00	11.73	D	C
	ATOM	3166	O	GLY	D	508	35.195	58.701	62.137	1.00	13.83	D	O
	ATOM	3167	N	PHE	D	509	33.566	57.325	62.876	1.00	11.85	D	N
	ATOM	3168	CA	PHE	D	509	33.262	56.730	61.577	1.00	12.86	D	C
	ATOM	3169	CB	PHE	D	509	33.385	55.213	61.638	1.00	12.13	D	C
55	ATOM	3170	CG	PHE	D	509	34.786	54.735	61.760	1.00	15.55	D	C
	ATOM	3171	CD1	PHE	D	509	35.494	54.314	60.629	1.00	13.22	D	C
	ATOM	3172	CD2	PHE	D	509	35.412	54.717	63.002	1.00	12.55	D	C
	ATOM	3173	CE1	PHE	D	509	36.810	53.883	60.730	1.00	13.30	D	C
	ATOM	3174	CE2	PHE	D	509	36.725	54.290	63.120	1.00	17.12	D	C
	ATOM	3175	CZ	PHE	D	509	37.433	53.869	61.974	1.00	18.40	D	C
60	ATOM	3176	C	PHE	D	509	31.841	57.058	61.151	1.00	14.32	D	C
	ATOM	3177	O	PHE	D	509	30.927	57.118	61.981	1.00	14.48	D	O
	ATOM	3178	N	ASP	D	510	31.661	57.253	59.850	1.00	13.72	D	N
	ATOM	3179	CA	ASP	D	510	30.355	57.551	59.275	1.00	13.37	D	C
65	ATOM	3180	CB	ASP	D	510	30.413	58.920	58.576	1.00	14.32	D	C
	ATOM	3181	CG	ASP	D	510	29.036	59.529	58.320	1.00	13.37	D	C
	ATOM	3182	OD1	ASP	D	510	28.038	58.789	58.168	1.00	16.88	D	O
	ATOM	3183	OD2	ASP	D	510	28.950	60.776	58.251	1.00	15.57	D	O
	ATOM	3184	C	ASP	D	510	30.035	56.435	58.268	1.00	16.17	D	C

	ATOM	3185	O	ASP	D	510	30.924	55.682	57.843	1.00	15.52	D	O
	ATOM	3186	N	SER	D	511	28.760	56.303	57.922	1.00	16.91	D	N
	ATOM	3187	CA	SER	D	511	28.330	55.316	56.937	1.00	17.58	D	C
	ATOM	3188	CB	SER	D	511	27.497	54.221	57.584	1.00	14.93	D	C
5	ATOM	3189	OG	SER	D	511	27.053	53.306	56.605	1.00	13.63	D	O
	ATOM	3190	C	SER	D	511	27.485	56.107	55.949	1.00	17.96	D	C
	ATOM	3191	O	SER	D	511	26.574	56.817	56.353	1.00	15.94	D	O
	ATOM	3192	N	VAL	D	512	27.801	55.994	54.662	1.00	19.61	D	N
10	ATOM	3193	CA	VAL	D	512	27.093	56.748	53.635	1.00	19.54	D	C
	ATOM	3194	CB	VAL	D	512	27.947	57.955	53.175	1.00	20.88	D	C
	ATOM	3195	CG1	VAL	D	512	28.088	58.953	54.308	1.00	19.64	D	C
	ATOM	3196	CG2	VAL	D	512	29.345	57.484	52.749	1.00	20.25	D	C
	ATOM	3197	C	VAL	D	512	26.680	55.945	52.404	1.00	19.81	D	C
	ATOM	3198	O	VAL	D	512	27.304	54.944	52.058	1.00	16.14	D	O
15	ATOM	3199	N	ASP	D	513	25.608	56.417	51.762	1.00	24.96	D	N
	ATOM	3200	CA	ASP	D	513	25.011	55.834	50.551	1.00	25.43	D	C
	ATOM	3201	CB	ASP	D	513	24.948	54.299	50.620	1.00	26.32	D	C
	ATOM	3202	CG	ASP	D	513	24.782	53.653	49.231	1.00	28.82	D	C
20	ATOM	3203	OD1	ASP	D	513	25.082	54.318	48.210	1.00	27.72	D	O
	ATOM	3204	OD2	ASP	D	513	24.354	52.481	49.161	1.00	27.31	D	O
	ATOM	3205	C	ASP	D	513	23.592	56.363	50.382	1.00	25.64	D	C
	ATOM	3206	O	ASP	D	513	23.080	57.080	51.239	1.00	26.94	D	O
	ATOM	3207	N	ASP	D	514	22.967	56.009	49.263	1.00	26.24	D	N
25	ATOM	3208	CA	ASP	D	514	21.592	56.401	48.970	1.00	23.79	D	C
	ATOM	3209	CB	ASP	D	514	21.254	56.034	47.527	1.00	26.89	D	C
	ATOM	3210	CG	ASP	D	514	19.848	56.439	47.121	1.00	31.24	D	C
	ATOM	3211	OD1	ASP	D	514	19.041	56.837	47.985	1.00	33.77	D	O
	ATOM	3212	OD2	ASP	D	514	19.544	56.356	45.912	1.00	35.70	D	O
30	ATOM	3213	C	ASP	D	514	20.752	55.579	49.930	1.00	23.87	D	C
	ATOM	3214	O	ASP	D	514	20.568	54.372	49.732	1.00	21.88	D	O
	ATOM	3215	N	GLU	D	515	20.252	56.231	50.973	1.00	23.14	D	N
	ATOM	3216	CA	GLU	D	515	19.456	55.544	51.983	1.00	23.85	D	C
	ATOM	3217	CB	GLU	D	515	19.294	56.441	53.217	1.00	23.83	D	C
	ATOM	3218	CG	GLU	D	515	19.445	55.694	54.519	1.00	19.88	D	C
35	ATOM	3219	CD	GLU	D	515	19.135	56.556	55.710	1.00	15.74	D	C
	ATOM	3220	OE1	GLU	D	515	19.444	57.765	55.662	1.00	12.67	D	O
	ATOM	3221	OE2	GLU	D	515	18.581	56.017	56.690	1.00	12.44	D	O
	ATOM	3222	C	GLU	D	515	18.084	55.067	51.513	1.00	24.96	D	C
40	ATOM	3223	O	GLU	D	515	17.479	54.180	52.131	1.00	23.53	D	O
	ATOM	3224	N	SER	D	516	17.589	55.657	50.428	1.00	25.14	D	N
	ATOM	3225	CA	SER	D	516	16.283	55.278	49.892	1.00	27.49	D	C
	ATOM	3226	CB	SER	D	516	15.758	56.336	48.922	1.00	26.67	D	C
	ATOM	3227	OG	SER	D	516	16.451	56.279	47.689	1.00	27.20	D	O
45	ATOM	3228	C	SER	D	516	16.361	53.961	49.170	1.00	29.80	D	C
	ATOM	3229	O	SER	D	516	15.344	53.416	48.777	1.00	32.01	D	O
	ATOM	3230	N	LYS	D	517	17.573	53.450	48.994	1.00	34.31	D	N
	ATOM	3231	CA	LYS	D	517	17.760	52.188	48.304	1.00	38.20	D	C
	ATOM	3232	CB	LYS	D	517	19.231	51.820	48.244	1.00	36.45	D	C
50	ATOM	3233	CG	LYS	D	517	19.717	51.566	46.846	1.00	35.25	D	C
	ATOM	3234	CD	LYS	D	517	20.852	52.501	46.491	1.00	37.84	D	C
	ATOM	3235	CE	LYS	D	517	22.072	52.249	47.373	1.00	39.26	D	C
	ATOM	3236	NZ	LYS	D	517	23.024	51.283	46.760	1.00	39.12	D	N
	ATOM	3237	C	LYS	D	517	16.984	51.034	48.912	1.00	45.05	D	C
55	ATOM	3238	O	LYS	D	517	16.574	51.053	50.083	1.00	47.89	D	O
	ATOM	3239	N	HIS	D	518	16.812	50.023	48.072	1.00	50.94	D	N
	ATOM	3240	CA	HIS	D	518	16.091	48.785	48.364	1.00	55.50	D	C
	ATOM	3241	CB	HIS	D	518	15.500	48.277	47.057	1.00	59.89	D	C
	ATOM	3242	CG	HIS	D	518	16.538	48.135	45.986	1.00	65.88	D	C
60	ATOM	3243	CD2	HIS	D	518	17.122	49.061	45.183	1.00	65.86	D	C
	ATOM	3244	ND1	HIS	D	518	17.217	46.953	45.759	1.00	67.67	D	N
	ATOM	3245	CE1	HIS	D	518	18.173	47.157	44.870	1.00	68.11	D	C
	ATOM	3246	NE2	HIS	D	518	18.137	48.429	44.504	1.00	69.50	D	N
	ATOM	3247	C	HIS	D	518	17.086	47.732	48.860	1.00	54.62	D	C
65	ATOM	3248	O	HIS	D	518	18.132	47.507	48.234	1.00	54.29	D	O
	ATOM	3249	N	SER	D	519	16.776	47.082	49.970	1.00	53.64	D	N
	ATOM	3250	CA	SER	D	519	17.672	46.040	50.449	1.00	52.91	D	C
	ATOM	3251	CB	SER	D	519	17.917	46.175	51.950	1.00	52.76	D	C
	ATOM	3252	OG	SER	D	519	18.429	44.961	52.468	1.00	50.12	D	O

	ATOM	3253	C	SER	D	519	16.965	44.725	50.153	1.00	53.10	D	C
	ATOM	3254	O	SER	D	519	17.484	43.872	49.431	1.00	50.86	D	O
	ATOM	3255	N	GLY	D	520	15.759	44.598	50.707	1.00	53.89	D	N
5	ATOM	3256	CA	GLY	D	520	14.952	43.406	50.526	1.00	53.14	D	C
	ATOM	3257	C	GLY	D	520	15.259	42.310	51.529	1.00	52.72	D	C
	ATOM	3258	O	GLY	D	520	14.375	41.535	51.888	1.00	54.64	D	O
	ATOM	3259	N	HIS	D	521	16.504	42.265	51.997	1.00	51.48	D	N
	ATOM	3260	CA	HIS	D	521	16.965	41.241	52.936	1.00	50.43	D	C
10	ATOM	3261	CB	HIS	D	521	18.079	40.430	52.268	1.00	52.82	D	C
	ATOM	3262	CG	HIS	D	521	19.023	41.269	51.455	1.00	55.69	D	C
	ATOM	3263	CD2	HIS	D	521	19.697	42.405	51.763	1.00	56.52	D	C
	ATOM	3264	ND1	HIS	D	521	19.334	40.988	50.141	1.00	56.59	D	N
	ATOM	3265	CE1	HIS	D	521	20.155	41.914	49.675	1.00	56.96	D	C
15	ATOM	3266	NE2	HIS	D	521	20.391	42.785	50.640	1.00	57.08	D	N
	ATOM	3267	C	HIS	D	521	17.503	41.831	54.240	1.00	48.12	D	C
	ATOM	3268	O	HIS	D	521	18.687	42.157	54.329	1.00	49.13	D	O
	ATOM	3269	N	MET	D	522	16.672	41.948	55.264	1.00	44.19	D	N
	ATOM	3270	CA	MET	D	522	17.195	42.515	56.496	1.00	44.51	D	C
20	ATOM	3271	CB	MET	D	522	16.101	43.172	57.332	1.00	47.84	D	C
	ATOM	3272	CG	MET	D	522	16.707	44.199	58.282	1.00	50.30	D	C
	ATOM	3273	SD	MET	D	522	15.740	44.605	59.724	1.00	55.89	D	S
	ATOM	3274	CE	MET	D	522	14.261	45.314	58.933	1.00	55.42	D	C
	ATOM	3275	C	MET	D	522	17.985	41.580	57.399	1.00	40.03	D	C
25	ATOM	3276	O	MET	D	522	17.757	40.377	57.438	1.00	37.23	D	O
	ATOM	3277	N	PHE	D	523	18.920	42.180	58.127	1.00	37.62	D	N
	ATOM	3278	CA	PHE	D	523	19.777	41.480	59.067	1.00	33.89	D	C
	ATOM	3279	CB	PHE	D	523	20.501	42.505	59.940	1.00	31.93	D	C
	ATOM	3280	CG	PHE	D	523	21.585	41.924	60.794	1.00	29.46	D	C
30	ATOM	3281	CD1	PHE	D	523	22.512	41.043	60.254	1.00	27.60	D	C
	ATOM	3282	CD2	PHE	D	523	21.688	42.274	62.142	1.00	27.55	D	C
	ATOM	3283	CE1	PHE	D	523	23.531	40.514	61.039	1.00	29.58	D	C
	ATOM	3284	CE2	PHE	D	523	22.703	41.755	62.940	1.00	26.24	D	C
	ATOM	3285	CZ	PHE	D	523	23.628	40.873	62.390	1.00	29.29	D	C
35	ATOM	3286	C	PHE	D	523	18.990	40.523	59.953	1.00	32.81	D	C
	ATOM	3287	O	PHE	D	523	17.978	40.891	60.547	1.00	31.81	D	O
	ATOM	3288	N	SER	D	524	19.471	39.290	60.041	1.00	32.46	D	N
	ATOM	3289	CA	SER	D	524	18.830	38.283	60.861	1.00	33.16	D	C
	ATOM	3290	CB	SER	D	524	17.628	37.693	60.125	1.00	34.63	D	C
40	ATOM	3291	OG	SER	D	524	17.932	36.405	59.606	1.00	35.15	D	O
	ATOM	3292	C	SER	D	524	19.799	37.163	61.235	1.00	35.57	D	C
	ATOM	3293	O	SER	D	524	20.998	37.212	60.939	1.00	35.40	D	O
	ATOM	3294	N	SER	D	525	19.261	36.152	61.901	1.00	36.99	D	N
	ATOM	3295	CA	SER	D	525	20.035	34.999	62.321	1.00	38.52	D	C
45	ATOM	3296	CB	SER	D	525	19.216	34.168	63.303	1.00	39.62	D	C
	ATOM	3297	OG	SER	D	525	19.970	33.911	64.472	1.00	45.97	D	O
	ATOM	3298	C	SER	D	525	20.407	34.134	61.120	1.00	38.52	D	C
	ATOM	3299	O	SER	D	525	21.411	33.412	61.143	1.00	37.13	D	O
	ATOM	3300	N	LYS	D	526	19.580	34.207	60.081	1.00	37.49	D	N
50	ATOM	3301	CA	LYS	D	526	19.796	33.443	58.860	1.00	38.89	D	C
	ATOM	3302	CB	LYS	D	526	18.485	33.308	58.081	1.00	42.74	D	C
	ATOM	3303	CG	LYS	D	526	17.236	33.235	58.946	1.00	47.89	D	C
	ATOM	3304	CD	LYS	D	526	16.955	31.799	59.376	1.00	51.22	D	C
	ATOM	3305	CE	LYS	D	526	15.451	31.510	59.437	1.00	54.15	D	C
55	ATOM	3306	NZ	LYS	D	526	15.080	30.261	58.692	1.00	54.43	D	N
	ATOM	3307	C	LYS	D	526	20.839	34.103	57.966	1.00	36.19	D	C
	ATOM	3308	O	LYS	D	526	21.507	33.434	57.184	1.00	37.26	D	O
	ATOM	3309	N	SER	D	527	20.969	35.416	58.082	1.00	33.08	D	N
	ATOM	3310	CA	SER	D	527	21.920	36.163	57.275	1.00	31.13	D	C
60	ATOM	3311	CB	SER	D	527	21.984	37.617	57.763	1.00	31.39	D	C
	ATOM	3312	OG	SER	D	527	20.851	38.357	57.336	1.00	30.66	D	O
	ATOM	3313	C	SER	D	527	23.324	35.561	57.286	1.00	29.48	D	C
	ATOM	3314	O	SER	D	527	23.878	35.268	58.340	1.00	32.28	D	O
	ATOM	3315	N	PRO	D	528	23.908	35.341	56.102	1.00	28.04	D	N
65	ATOM	3316	CD	PRO	D	528	23.314	35.536	54.768	1.00	26.79	D	C
	ATOM	3317	CA	PRO	D	528	25.260	34.777	56.031	1.00	26.38	D	C
	ATOM	3318	CB	PRO	D	528	25.515	34.606	54.531	1.00	26.70	D	C
	ATOM	3319	CG	PRO	D	528	24.493	35.420	53.845	1.00	26.67	D	C
	ATOM	3320	C	PRO	D	528	26.293	35.698	56.655	1.00	25.41	D	C

	ATOM	3321	O	PRO	D	528	26.129	36.915	56.634	1.00	24.37	D	O
	ATOM	3322	N	LYS	D	529	27.355	35.120	57.206	1.00	24.41	D	N
	ATOM	3323	CA	LYS	D	529	28.409	35.927	57.805	1.00	26.33	D	C
	ATOM	3324	CB	LYS	D	529	29.427	35.054	58.548	1.00	25.00	D	C
5	ATOM	3325	CG	LYS	D	529	28.807	34.032	59.487	1.00	27.69	D	C
	ATOM	3326	CD	LYS	D	529	28.582	34.584	60.891	1.00	29.48	D	C
	ATOM	3327	CE	LYS	D	529	27.095	34.697	61.205	1.00	33.10	D	C
	ATOM	3328	NZ	LYS	D	529	26.582	33.633	62.112	1.00	31.64	D	N
	ATOM	3329	C	LYS	D	529	29.078	36.643	56.645	1.00	25.63	D	C
10	ATOM	3330	O	LYS	D	529	28.899	36.251	55.493	1.00	26.89	D	O
	ATOM	3331	N	PRO	D	530	29.828	37.721	56.929	1.00	24.77	D	N
	ATOM	3332	CD	PRO	D	530	30.033	38.333	58.257	1.00	21.26	D	C
	ATOM	3333	CA	PRO	D	530	30.511	38.480	55.880	1.00	22.90	D	C
	ATOM	3334	CB	PRO	D	530	31.367	39.473	56.669	1.00	19.63	D	C
15	ATOM	3335	CG	PRO	D	530	30.583	39.694	57.922	1.00	18.66	D	C
	ATOM	3336	C	PRO	D	530	31.328	37.658	54.879	1.00	23.81	D	C
	ATOM	3337	O	PRO	D	530	31.185	37.827	53.666	1.00	21.73	D	O
	ATOM	3338	N	GLN	D	531	32.190	36.779	55.379	1.00	24.81	D	N
	ATOM	3339	CA	GLN	D	531	33.025	35.976	54.500	1.00	27.33	D	C
20	ATOM	3340	CB	GLN	D	531	34.046	35.176	55.318	1.00	28.50	D	C
	ATOM	3341	CG	GLN	D	531	33.445	34.035	56.142	1.00	34.04	D	C
	ATOM	3342	CD	GLN	D	531	32.982	34.471	57.540	1.00	39.19	D	C
	ATOM	3343	OE1	GLN	D	531	32.936	35.676	57.861	1.00	33.27	D	O
	ATOM	3344	NE2	GLN	D	531	32.640	33.482	58.382	1.00	37.71	D	N
25	ATOM	3345	C	GLN	D	531	32.165	35.048	53.652	1.00	27.48	D	C
	ATOM	3346	O	GLN	D	531	32.605	34.564	52.615	1.00	29.05	D	O
	ATOM	3347	N	GLU	D	532	30.932	34.814	54.094	1.00	28.71	D	N
	ATOM	3348	CA	GLU	D	532	29.994	33.955	53.375	1.00	29.53	D	C
	ATOM	3349	CB	GLU	D	532	29.067	33.241	54.354	1.00	30.12	D	C
30	ATOM	3350	CG	GLU	D	532	29.742	32.187	55.211	1.00	40.25	D	C
	ATOM	3351	CD	GLU	D	532	28.925	31.836	56.471	1.00	47.13	D	C
	ATOM	3352	OE1	GLU	D	532	27.688	32.102	56.505	1.00	44.41	D	O
	ATOM	3353	OE2	GLU	D	532	29.532	31.292	57.432	1.00	48.71	D	O
	ATOM	3354	C	GLU	D	532	29.139	34.747	52.382	1.00	28.74	D	C
35	ATOM	3355	O	GLU	D	532	28.474	34.165	51.533	1.00	28.45	D	O
	ATOM	3356	N	TRP	D	533	29.138	36.073	52.509	1.00	28.74	D	N
	ATOM	3357	CA	TRP	D	533	28.368	36.939	51.618	1.00	24.82	D	C
	ATOM	3358	CB	TRP	D	533	28.065	38.270	52.303	1.00	24.68	D	C
	ATOM	3359	CG	TRP	D	533	27.048	39.084	51.582	1.00	23.07	D	C
40	ATOM	3360	CD2	TRP	D	533	25.689	39.297	51.974	1.00	21.76	D	C
	ATOM	3361	CE2	TRP	D	533	25.097	40.119	50.993	1.00	21.95	D	C
	ATOM	3362	CE3	TRP	D	533	24.911	38.872	53.064	1.00	23.91	D	C
	ATOM	3363	CD1	TRP	D	533	27.223	39.769	50.410	1.00	19.27	D	C
	ATOM	3364	NE1	TRP	D	533	26.058	40.390	50.052	1.00	22.27	D	N
45	ATOM	3365	CZ2	TRP	D	533	23.755	40.530	51.064	1.00	22.83	D	C
	ATOM	3366	CZ3	TRP	D	533	23.575	39.278	53.139	1.00	20.46	D	C
	ATOM	3367	CH2	TRP	D	533	23.012	40.101	52.142	1.00	21.65	D	C
	ATOM	3368	C	TRP	D	533	29.201	37.179	50.363	1.00	23.20	D	C
	ATOM	3369	O	TRP	D	533	29.952	38.149	50.275	1.00	18.88	D	O
50	ATOM	3370	N	THR	D	534	29.050	36.278	49.400	1.00	23.43	D	N
	ATOM	3371	CA	THR	D	534	29.793	36.341	48.155	1.00	24.34	D	C
	ATOM	3372	CB	THR	D	534	30.327	34.958	47.774	1.00	23.14	D	C
	ATOM	3373	OG1	THR	D	534	29.244	34.028	47.836	1.00	26.73	D	O
	ATOM	3374	CG2	THR	D	534	31.425	34.506	48.717	1.00	22.26	D	C
55	ATOM	3375	C	THR	D	534	28.944	36.847	46.984	1.00	25.85	D	C
	ATOM	3376	O	THR	D	534	29.490	37.170	45.921	1.00	24.78	D	O
	ATOM	3377	N	LEU	D	535	27.625	36.907	47.162	1.00	23.25	D	N
	ATOM	3378	CA	LEU	D	535	26.762	37.374	46.086	1.00	25.44	D	C
	ATOM	3379	CB	LEU	D	535	25.296	37.146	46.427	1.00	25.46	D	C
60	ATOM	3380	CG	LEU	D	535	24.777	37.967	47.599	1.00	31.62	D	C
	ATOM	3381	CD1	LEU	D	535	23.275	38.091	47.497	1.00	31.80	D	C
	ATOM	3382	CD2	LEU	D	535	25.165	37.296	48.915	1.00	37.15	D	C
	ATOM	3383	C	LEU	D	535	27.014	38.850	45.765	1.00	27.04	D	C
	ATOM	3384	O	LEU	D	535	27.756	39.546	46.465	1.00	28.36	D	O
65	ATOM	3385	N	GLU	D	536	26.401	39.324	44.694	1.00	27.76	D	N
	ATOM	3386	CA	GLU	D	536	26.595	40.696	44.264	1.00	30.53	D	C
	ATOM	3387	CB	GLU	D	536	26.313	40.810	42.769	1.00	33.73	D	C
	ATOM	3388	CG	GLU	D	536	27.398	41.534	42.008	1.00	42.75	D	C

	ATOM	3389	CD	GLU	D	536	27.323	41.275	40.511	1.00	46.40	D	C
	ATOM	3390	OE1	GLU	D	536	26.821	42.162	39.781	1.00	50.24	D	O
	ATOM	3391	OE2	GLU	D	536	27.761	40.190	40.066	1.00	44.65	D	O
	ATOM	3392	C	GLU	D	536	25.739	41.695	45.016	1.00	28.76	D	C
5	ATOM	3393	O	GLU	D	536	26.075	42.882	45.066	1.00	27.04	D	O
	ATOM	3394	N	LYS	D	537	24.637	41.212	45.585	1.00	26.85	D	N
	ATOM	3395	CA	LYS	D	537	23.711	42.048	46.338	1.00	27.36	D	C
	ATOM	3396	CB	LYS	D	537	22.570	41.205	46.902	1.00	31.40	D	C
	ATOM	3397	CG	LYS	D	537	21.319	41.216	46.053	1.00	39.64	D	C
10	ATOM	3398	CD	LYS	D	537	20.445	42.428	46.358	1.00	44.21	D	C
	ATOM	3399	CE	LYS	D	537	19.196	42.437	45.480	1.00	47.63	D	C
	ATOM	3400	NZ	LYS	D	537	18.961	43.766	44.829	1.00	51.21	D	N
	ATOM	3401	C	LYS	D	537	24.400	42.764	47.487	1.00	26.32	D	C
	ATOM	3402	O	LYS	D	537	25.280	42.210	48.143	1.00	27.12	D	O
15	ATOM	3403	N	ASN	D	538	23.985	44.001	47.725	1.00	24.35	D	N
	ATOM	3404	CA	ASN	D	538	24.544	44.811	48.801	1.00	20.76	D	C
	ATOM	3405	CB	ASN	D	538	24.292	46.293	48.521	1.00	18.12	D	C
	ATOM	3406	CG	ASN	D	538	25.307	47.197	49.184	1.00	14.89	D	C
	ATOM	3407	OD1	ASN	D	538	26.439	46.800	49.417	1.00	17.79	D	O
20	ATOM	3408	ND2	ASN	D	538	24.901	48.424	49.493	1.00	15.96	D	N
	ATOM	3409	C	ASN	D	538	23.857	44.448	50.102	1.00	19.86	D	C
	ATOM	3410	O	ASN	D	538	22.630	44.372	50.144	1.00	20.40	D	O
	ATOM	3411	N	PRO	D	539	24.631	44.157	51.166	1.00	18.84	D	N
	ATOM	3412	CD	PRO	D	539	26.100	44.046	51.256	1.00	17.55	D	C
25	ATOM	3413	CA	PRO	D	539	23.972	43.825	52.436	1.00	18.49	D	C
	ATOM	3414	CB	PRO	D	539	25.142	43.622	53.404	1.00	16.42	D	C
	ATOM	3415	CG	PRO	D	539	26.315	43.285	52.532	1.00	14.27	D	C
	ATOM	3416	C	PRO	D	539	23.070	45.010	52.852	1.00	17.74	D	C
	ATOM	3417	O	PRO	D	539	23.290	46.138	52.422	1.00	15.22	D	O
30	ATOM	3418	N	SER	D	540	22.050	44.751	53.663	1.00	18.23	D	N
	ATOM	3419	CA	SER	D	540	21.159	45.814	54.146	1.00	18.36	D	C
	ATOM	3420	CB	SER	D	540	19.986	45.219	54.937	1.00	20.01	D	C
	ATOM	3421	OG	SER	D	540	20.431	44.671	56.168	1.00	23.45	D	O
	ATOM	3422	C	SER	D	540	21.877	46.827	55.055	1.00	17.45	D	C
35	ATOM	3423	O	SER	D	540	23.012	46.606	55.502	1.00	15.26	D	O
	ATOM	3424	N	TYR	D	541	21.192	47.941	55.309	1.00	15.98	D	N
	ATOM	3425	CA	TYR	D	541	21.690	49.018	56.158	1.00	16.42	D	C
	ATOM	3426	CB	TYR	D	541	20.620	50.116	56.234	1.00	17.33	D	C
	ATOM	3427	CG	TYR	D	541	20.963	51.318	57.093	1.00	18.20	D	C
40	ATOM	3428	CD1	TYR	D	541	20.783	51.283	58.471	1.00	18.21	D	C
	ATOM	3429	CE1	TYR	D	541	21.116	52.383	59.261	1.00	18.22	D	C
	ATOM	3430	CD2	TYR	D	541	21.475	52.484	56.524	1.00	13.66	D	C
	ATOM	3431	CE2	TYR	D	541	21.808	53.579	57.296	1.00	13.79	D	C
	ATOM	3432	CZ	TYR	D	541	21.634	53.527	58.668	1.00	17.34	D	C
45	ATOM	3433	OH	TYR	D	541	22.019	54.593	59.454	1.00	14.63	D	O
	ATOM	3434	C	TYR	D	541	22.040	48.491	57.555	1.00	14.52	D	C
	ATOM	3435	O	TYR	D	541	23.108	48.774	58.080	1.00	15.69	D	O
	ATOM	3436	N	THR	D	542	21.144	47.714	58.149	1.00	15.47	D	N
	ATOM	3437	CA	THR	D	542	21.387	47.140	59.477	1.00	17.79	D	C
50	ATOM	3438	CB	THR	D	542	20.139	46.405	59.997	1.00	16.71	D	C
	ATOM	3439	OG1	THR	D	542	19.087	47.356	60.175	1.00	15.63	D	O
	ATOM	3440	CG2	THR	D	542	20.425	45.728	61.335	1.00	16.88	D	C
	ATOM	3441	C	THR	D	542	22.583	46.177	59.486	1.00	18.46	D	C
	ATOM	3442	O	THR	D	542	23.362	46.146	60.458	1.00	18.10	D	O
55	ATOM	3443	N	TYR	D	543	22.732	45.409	58.406	1.00	17.05	D	N
	ATOM	3444	CA	TYR	D	543	23.852	44.468	58.265	1.00	17.79	D	C
	ATOM	3445	CB	TYR	D	543	23.756	43.736	56.917	1.00	18.18	D	C
	ATOM	3446	CG	TYR	D	543	24.699	42.563	56.755	1.00	14.78	D	C
	ATOM	3447	CD1	TYR	D	543	26.046	42.761	56.456	1.00	14.60	D	C
60	ATOM	3448	CE1	TYR	D	543	26.915	41.677	56.307	1.00	17.18	D	C
	ATOM	3449	CD2	TYR	D	543	24.240	41.253	56.904	1.00	17.03	D	C
	ATOM	3450	CE2	TYR	D	543	25.099	40.157	56.759	1.00	18.37	D	C
	ATOM	3451	CZ	TYR	D	543	26.428	40.379	56.458	1.00	18.92	D	C
	ATOM	3452	OH	TYR	D	543	27.254	39.304	56.264	1.00	22.32	D	O
65	ATOM	3453	C	TYR	D	543	25.158	45.269	58.336	1.00	16.70	D	C
	ATOM	3454	O	TYR	D	543	26.094	44.921	59.059	1.00	17.27	D	O
	ATOM	3455	N	TYR	D	544	25.212	46.351	57.576	1.00	16.08	D	N
	ATOM	3456	CA	TYR	D	544	26.383	47.210	57.577	1.00	17.89	D	C

5	ATOM	3457	CB	TYR	D	544	26.189	48.369	56.564	1.00	17.12	D	C
	ATOM	3458	CG	TYR	D	544	26.685	48.130	55.137	1.00	17.29	D	C
	ATOM	3459	CD1	TYR	D	544	25.826	47.621	54.153	1.00	17.17	D	C
	ATOM	3460	CE1	TYR	D	544	26.239	47.495	52.825	1.00	16.14	D	C
	ATOM	3461	CD2	TYR	D	544	27.978	48.494	54.758	1.00	13.87	D	C
	ATOM	3462	CE2	TYR	D	544	28.405	48.372	53.441	1.00	19.28	D	C
	ATOM	3463	CZ	TYR	D	544	27.526	47.877	52.475	1.00	20.08	D	C
	ATOM	3464	OH	TYR	D	544	27.928	47.802	51.157	1.00	21.45	D	O
10	ATOM	3465	C	TYR	D	544	26.587	47.806	58.998	1.00	18.49	D	C
	ATOM	3466	O	TYR	D	544	27.697	47.803	59.541	1.00	18.01	D	O
	ATOM	3467	N	ALA	D	545	25.506	48.326	59.581	1.00	17.70	D	N
	ATOM	3468	CA	ALA	D	545	25.565	48.955	60.897	1.00	16.71	D	C
15	ATOM	3469	CB	ALA	D	545	24.195	49.526	61.269	1.00	15.35	D	C
	ATOM	3470	C	ALA	D	545	26.042	47.998	61.979	1.00	15.29	D	C
	ATOM	3471	O	ALA	D	545	26.882	48.358	62.801	1.00	16.33	D	O
	ATOM	3472	N	TYR	D	546	25.529	46.776	61.979	1.00	12.93	D	N
20	ATOM	3473	CA	TYR	D	546	25.967	45.842	62.992	1.00	15.83	D	C
	ATOM	3474	CB	TYR	D	546	25.239	44.497	62.883	1.00	16.14	D	C
	ATOM	3475	CG	TYR	D	546	25.797	43.494	63.876	1.00	21.92	D	C
	ATOM	3476	CD1	TYR	D	546	25.449	43.557	65.228	1.00	26.38	D	C
25	ATOM	3477	CE1	TYR	D	546	26.063	42.734	66.179	1.00	24.39	D	C
	ATOM	3478	CD2	TYR	D	546	26.769	42.569	63.496	1.00	22.62	D	C
	ATOM	3479	CE2	TYR	D	546	27.388	41.745	64.436	1.00	25.57	D	C
	ATOM	3480	CZ	TYR	D	546	27.030	41.839	65.776	1.00	27.49	D	C
30	ATOM	3481	OH	TYR	D	546	27.668	41.059	66.710	1.00	28.52	D	O
	ATOM	3482	C	TYR	D	546	27.471	45.591	62.929	1.00	17.14	D	C
	ATOM	3483	O	TYR	D	546	28.175	45.697	63.936	1.00	19.12	D	O
	ATOM	3484	N	TYR	D	547	27.975	45.256	61.749	1.00	17.82	D	N
35	ATOM	3485	CA	TYR	D	547	29.394	44.965	61.625	1.00	15.63	D	C
	ATOM	3486	CB	TYR	D	547	29.652	44.262	60.289	1.00	15.57	D	C
	ATOM	3487	CG	TYR	D	547	29.167	42.827	60.346	1.00	14.74	D	C
	ATOM	3488	CD1	TYR	D	547	29.869	41.867	61.081	1.00	15.14	D	C
40	ATOM	3489	CE1	TYR	D	547	29.373	40.572	61.237	1.00	13.67	D	C
	ATOM	3490	CD2	TYR	D	547	27.957	42.451	59.762	1.00	12.57	D	C
	ATOM	3491	CE2	TYR	D	547	27.451	41.159	59.907	1.00	9.62	D	C
	ATOM	3492	CZ	TYR	D	547	28.166	40.229	60.648	1.00	14.32	D	C
45	ATOM	3493	OH	TYR	D	547	27.678	38.955	60.809	1.00	14.22	D	O
	ATOM	3494	C	TYR	D	547	30.323	46.151	61.839	1.00	16.51	D	C
	ATOM	3495	O	TYR	D	547	31.478	45.966	62.234	1.00	17.87	D	O
	ATOM	3496	N	MET	D	548	29.836	47.368	61.596	1.00	16.66	D	N
50	ATOM	3497	CA	MET	D	548	30.669	48.540	61.828	1.00	16.31	D	C
	ATOM	3498	CB	MET	D	548	30.102	49.742	61.096	1.00	17.02	D	C
	ATOM	3499	CG	MET	D	548	30.616	49.832	59.673	1.00	19.95	D	C
	ATOM	3500	SD	MET	D	548	30.470	51.476	59.021	1.00	33.68	D	S
55	ATOM	3501	CE	MET	D	548	32.106	52.166	59.416	1.00	25.75	D	C
	ATOM	3502	C	MET	D	548	30.710	48.781	63.340	1.00	18.04	D	C
	ATOM	3503	O	MET	D	548	31.770	49.056	63.919	1.00	16.65	D	O
	ATOM	3504	N	TYR	D	549	29.552	48.644	63.983	1.00	15.42	D	N
60	ATOM	3505	CA	TYR	D	549	29.480	48.800	65.425	1.00	15.98	D	C
	ATOM	3506	CB	TYR	D	549	28.037	48.623	65.914	1.00	15.78	D	C
	ATOM	3507	CG	TYR	D	549	27.927	48.467	67.429	1.00	17.46	D	C
	ATOM	3508	CD1	TYR	D	549	27.832	49.588	68.255	1.00	17.13	D	C
65	ATOM	3509	CE1	TYR	D	549	27.792	49.464	69.645	1.00	17.91	D	C
	ATOM	3510	CD2	TYR	D	549	27.971	47.207	68.033	1.00	15.30	D	C
	ATOM	3511	CE2	TYR	D	549	27.932	47.069	69.412	1.00	15.09	D	C
	ATOM	3512	CZ	TYR	D	549	27.846	48.202	70.218	1.00	17.69	D	C
70	ATOM	3513	OH	TYR	D	549	27.858	48.087	71.591	1.00	16.47	D	O
	ATOM	3514	C	TYR	D	549	30.369	47.734	66.094	1.00	17.71	D	C
	ATOM	3515	O	TYR	D	549	31.176	48.058	66.971	1.00	17.82	D	O
	ATOM	3516	N	ALA	D	550	30.210	46.473	65.667	1.00	18.42	D	N
75	ATOM	3517	CA	ALA	D	550	30.957	45.333	66.218	1.00	17.31	D	C
	ATOM	3518	CB	ALA	D	550	30.602	44.057	65.467	1.00	14.28	D	C
	ATOM	3519	C	ALA	D	550	32.458	45.539	66.202	1.00	18.18	D	C
	ATOM	3520	O	ALA	D	550	33.132	45.288	67.197	1.00	19.79	D	O
80	ATOM	3521	N	ASN	D	551	32.987	46.000	65.073	1.00	17.66	D	N
	ATOM	3522	CA	ASN	D	551	34.421	46.234	64.964	1.00	16.09	D	C
	ATOM	3523	CB	ASN	D	551	34.823	46.347	63.487	1.00	15.53	D	C
	ATOM	3524	CG	ASN	D	551	34.944	44.986	62.825	1.00	13.14	D	C

	ATOM	3525	OD1	ASN	D	551	34.005	44.508	62.190	1.00	14.52	D	O
	ATOM	3526	ND2	ASN	D	551	36.092	44.349	62.986	1.00	9.73	D	N
	ATOM	3527	C	ASN	D	551	34.864	47.469	65.731	1.00	15.16	D	C
5	ATOM	3528	O	ASN	D	551	35.940	47.491	66.320	1.00	14.27	D	O
	ATOM	3529	N	ILE	D	552	34.029	48.499	65.739	1.00	14.27	D	N
	ATOM	3530	CA	ILE	D	552	34.392	49.714	66.448	1.00	16.29	D	C
	ATOM	3531	CB	ILE	D	552	33.412	50.881	66.093	1.00	15.30	D	C
	ATOM	3532	CG2	ILE	D	552	33.551	52.037	67.101	1.00	10.02	D	C
10	ATOM	3533	CG1	ILE	D	552	33.720	51.373	64.661	1.00	12.85	D	C
	ATOM	3534	CD1	ILE	D	552	32.688	52.301	64.062	1.00	8.79	D	C
	ATOM	3535	C	ILE	D	552	34.411	49.436	67.952	1.00	17.64	D	C
	ATOM	3536	O	ILE	D	552	35.237	49.979	68.683	1.00	18.80	D	O
	ATOM	3537	N	MET	D	553	33.511	48.573	68.411	1.00	19.01	D	N
15	ATOM	3538	CA	MET	D	553	33.461	48.237	69.827	1.00	20.65	D	C
	ATOM	3539	CB	MET	D	553	32.300	47.293	70.110	1.00	20.35	D	C
	ATOM	3540	CG	MET	D	553	32.521	46.459	71.359	1.00	24.75	D	C
	ATOM	3541	SD	MET	D	553	31.140	45.415	71.689	1.00	27.83	D	S
	ATOM	3542	CE	MET	D	553	31.772	44.461	73.096	1.00	29.11	D	C
20	ATOM	3543	C	MET	D	553	34.767	47.580	70.286	1.00	19.52	D	C
	ATOM	3544	O	MET	D	553	35.355	47.997	71.286	1.00	20.48	D	O
	ATOM	3545	N	VAL	D	554	35.205	46.553	69.556	1.00	18.42	D	N
	ATOM	3546	CA	VAL	D	554	36.437	45.828	69.882	1.00	16.06	D	C
	ATOM	3547	CB	VAL	D	554	36.628	44.579	68.946	1.00	15.83	D	C
	ATOM	3548	CG1	VAL	D	554	37.893	43.796	69.336	1.00	14.10	D	C
25	ATOM	3549	CG2	VAL	D	554	35.408	43.659	69.035	1.00	11.43	D	C
	ATOM	3550	C	VAL	D	554	37.631	46.765	69.746	1.00	17.00	D	C
	ATOM	3551	O	VAL	D	554	38.536	46.761	70.578	1.00	18.02	D	O
	ATOM	3552	N	LEU	D	555	37.631	47.582	68.697	1.00	16.14	D	N
30	ATOM	3553	CA	LEU	D	555	38.732	48.503	68.477	1.00	14.86	D	C
	ATOM	3554	CB	LEU	D	555	38.528	49.253	67.153	1.00	14.31	D	C
	ATOM	3555	CG	LEU	D	555	39.590	50.289	66.752	1.00	15.77	D	C
	ATOM	3556	CD1	LEU	D	555	40.961	49.637	66.582	1.00	12.17	D	C
	ATOM	3557	CD2	LEU	D	555	39.165	50.950	65.450	1.00	16.06	D	C
35	ATOM	3558	C	LEU	D	555	38.842	49.494	69.637	1.00	15.57	D	C
	ATOM	3559	O	LEU	D	555	39.936	49.777	70.126	1.00	13.57	D	O
	ATOM	3560	N	ASN	D	556	37.702	50.022	70.074	1.00	16.03	D	N
	ATOM	3561	CA	ASN	D	556	37.686	50.987	71.164	1.00	17.93	D	C
	ATOM	3562	CB	ASN	D	556	36.284	51.564	71.321	1.00	16.65	D	C
40	ATOM	3563	CG	ASN	D	556	35.979	52.642	70.287	1.00	16.10	D	C
	ATOM	3564	OD1	ASN	D	556	36.878	53.137	69.604	1.00	11.84	D	O
	ATOM	3565	ND2	ASN	D	556	34.707	53.010	70.174	1.00	11.10	D	N
	ATOM	3566	C	ASN	D	556	38.149	50.363	72.482	1.00	19.36	D	C
	ATOM	3567	O	ASN	D	556	38.818	51.016	73.298	1.00	16.13	D	O
45	ATOM	3568	N	SER	D	557	37.787	49.100	72.681	1.00	18.11	D	N
	ATOM	3569	CA	SER	D	557	38.186	48.376	73.882	1.00	21.81	D	C
	ATOM	3570	CB	SER	D	557	37.597	46.969	73.873	1.00	20.10	D	C
	ATOM	3571	OG	SER	D	557	36.182	47.017	73.894	1.00	25.28	D	O
	ATOM	3572	C	SER	D	557	39.702	48.273	73.908	1.00	21.20	D	C
50	ATOM	3573	O	SER	D	557	40.350	48.540	74.921	1.00	23.61	D	O
	ATOM	3574	N	LEU	D	558	40.262	47.879	72.778	1.00	19.71	D	N
	ATOM	3575	CA	LEU	D	558	41.691	47.732	72.677	1.00	21.52	D	C
	ATOM	3576	CB	LEU	D	558	42.047	47.112	71.324	1.00	23.68	D	C
	ATOM	3577	CG	LEU	D	558	43.535	47.011	70.984	1.00	29.45	D	C
55	ATOM	3578	CD1	LEU	D	558	44.227	46.060	71.958	1.00	28.17	D	C
	ATOM	3579	CD2	LEU	D	558	43.695	46.507	69.556	1.00	29.59	D	C
	ATOM	3580	C	LEU	D	558	42.410	49.058	72.862	1.00	20.93	D	C
	ATOM	3581	O	LEU	D	558	43.364	49.143	73.628	1.00	22.56	D	O
	ATOM	3582	N	ARG	D	559	41.944	50.099	72.184	1.00	21.01	D	N
60	ATOM	3583	CA	ARG	D	559	42.596	51.400	72.271	1.00	20.47	D	C
	ATOM	3584	CB	ARG	D	559	42.056	52.337	71.179	1.00	18.85	D	C
	ATOM	3585	CG	ARG	D	559	42.653	52.062	69.781	1.00	16.71	D	C
	ATOM	3586	CD	ARG	D	559	42.170	53.053	68.733	1.00	14.44	D	C
	ATOM	3587	NE	ARG	D	559	42.922	54.314	68.710	1.00	16.83	D	N
	ATOM	3588	CZ	ARG	D	559	44.081	54.503	68.079	1.00	13.53	D	C
65	ATOM	3589	NH1	ARG	D	559	44.652	53.514	67.404	1.00	15.94	D	N
	ATOM	3590	NH2	ARG	D	559	44.661	55.689	68.102	1.00	11.81	D	N
	ATOM	3591	C	ARG	D	559	42.479	52.051	73.641	1.00	22.26	D	C
	ATOM	3592	O	ARG	D	559	43.389	52.766	74.077	1.00	22.78	D	O

	ATOM	3593	N	LYS	D	560	41.355	51.818	74.313	1.00	22.62	D	N
	ATOM	3594	CA	LYS	D	560	41.133	52.376	75.644	1.00	25.90	D	C
	ATOM	3595	CB	LYS	D	560	39.749	51.960	76.170	1.00	25.12	D	C
	ATOM	3596	CG	LYS	D	560	39.457	52.353	77.618	1.00	29.26	D	C
5	ATOM	3597	CD	LYS	D	560	38.985	53.802	77.732	1.00	34.08	D	C
	ATOM	3598	CE	LYS	D	560	38.492	54.149	79.146	1.00	38.15	D	C
	ATOM	3599	NZ	LYS	D	560	37.574	55.342	79.187	1.00	33.03	D	N
	ATOM	3600	C	LYS	D	560	42.232	51.834	76.559	1.00	26.56	D	C
	ATOM	3601	O	LYS	D	560	42.907	52.589	77.261	1.00	28.48	D	O
10	ATOM	3602	N	GLU	D	561	42.415	50.519	76.522	1.00	28.78	D	N
	ATOM	3603	CA	GLU	D	561	43.428	49.852	77.324	1.00	32.72	D	C
	ATOM	3604	CB	GLU	D	561	43.338	48.348	77.121	1.00	37.20	D	C
	ATOM	3605	CG	GLU	D	561	42.492	47.645	78.159	1.00	47.26	D	C
	ATOM	3606	CD	GLU	D	561	42.321	46.167	77.841	1.00	55.44	D	C
15	ATOM	3607	OE1	GLU	D	561	43.321	45.521	77.437	1.00	58.92	D	O
	ATOM	3608	OE2	GLU	D	561	41.187	45.649	77.990	1.00	59.07	D	O
	ATOM	3609	C	GLU	D	561	44.848	50.317	77.018	1.00	32.03	D	C
	ATOM	3610	O	GLU	D	561	45.704	50.307	77.910	1.00	34.55	D	O
20	ATOM	3611	N	ARG	D	562	45.104	50.715	75.770	1.00	27.89	D	N
	ATOM	3612	CA	ARG	D	562	46.431	51.185	75.373	1.00	23.86	D	C
	ATOM	3613	CB	ARG	D	562	46.630	51.030	73.859	1.00	23.59	D	C
	ATOM	3614	CG	ARG	D	562	46.669	49.573	73.371	1.00	25.15	D	C
	ATOM	3615	CD	ARG	D	562	47.848	49.296	72.437	1.00	27.01	D	C
25	ATOM	3616	NE	ARG	D	562	49.147	49.365	73.112	1.00	29.65	D	N
	ATOM	3617	CZ	ARG	D	562	50.325	49.364	72.485	1.00	30.80	D	C
	ATOM	3618	NH1	ARG	D	562	50.393	49.296	71.159	1.00	28.31	D	N
	ATOM	3619	NH2	ARG	D	562	51.444	49.437	73.189	1.00	32.01	D	N
	ATOM	3620	C	ARG	D	562	46.623	52.645	75.760	1.00	23.05	D	C
30	ATOM	3621	O	ARG	D	562	47.715	53.202	75.640	1.00	22.44	D	O
	ATOM	3622	N	GLY	D	563	45.556	53.268	76.237	1.00	22.10	D	N
	ATOM	3623	CA	GLY	D	563	45.652	54.663	76.609	1.00	21.80	D	C
	ATOM	3624	C	GLY	D	563	45.505	55.544	75.381	1.00	22.62	D	C
	ATOM	3625	O	GLY	D	563	45.865	56.727	75.409	1.00	22.20	D	O
35	ATOM	3626	N	MET	D	564	44.964	54.973	74.303	1.00	20.66	D	N
	ATOM	3627	CA	MET	D	564	44.785	55.707	73.055	1.00	21.31	D	C
	ATOM	3628	CB	MET	D	564	45.115	54.812	71.858	1.00	20.76	D	C
	ATOM	3629	CG	MET	D	564	46.586	54.456	71.694	1.00	24.14	D	C
	ATOM	3630	SD	MET	D	564	46.798	53.032	70.607	1.00	23.45	D	S
40	ATOM	3631	CE	MET	D	564	48.508	53.204	70.136	1.00	24.36	D	C
	ATOM	3632	C	MET	D	564	43.359	56.225	72.916	1.00	21.69	D	C
	ATOM	3633	O	MET	D	564	42.469	55.838	73.681	1.00	24.75	D	O
	ATOM	3634	N	ASN	D	565	43.141	57.099	71.933	1.00	21.98	D	N
	ATOM	3635	CA	ASN	D	565	41.820	57.668	71.695	1.00	17.55	D	C
45	ATOM	3636	CB	ASN	D	565	41.914	58.880	70.756	1.00	17.73	D	C
	ATOM	3637	CG	ASN	D	565	42.516	58.539	69.401	1.00	17.80	D	C
	ATOM	3638	OD1	ASN	D	565	43.644	58.062	69.317	1.00	16.84	D	O
	ATOM	3639	ND2	ASN	D	565	41.759	58.791	68.330	1.00	14.96	D	N
	ATOM	3640	C	ASN	D	565	40.896	56.612	71.110	1.00	16.84	D	C
50	ATOM	3641	O	ASN	D	565	41.357	55.661	70.488	1.00	16.06	D	O
	ATOM	3642	N	THR	D	566	39.595	56.768	71.347	1.00	15.33	D	N
	ATOM	3643	CA	THR	D	566	38.599	55.839	70.846	1.00	15.40	D	C
	ATOM	3644	CB	THR	D	566	37.737	55.248	72.012	1.00	17.84	D	C
	ATOM	3645	OG1	THR	D	566	37.032	56.300	72.678	1.00	20.10	D	O
55	ATOM	3646	CG2	THR	D	566	38.623	54.538	73.028	1.00	17.67	D	C
	ATOM	3647	C	THR	D	566	37.706	56.573	69.828	1.00	14.79	D	C
	ATOM	3648	O	THR	D	566	37.798	57.794	69.674	1.00	14.47	D	O
	ATOM	3649	N	PHE	D	567	36.826	55.837	69.153	1.00	13.23	D	N
	ATOM	3650	CA	PHE	D	567	35.986	56.425	68.113	1.00	13.39	D	C
60	ATOM	3651	CB	PHE	D	567	36.341	55.806	66.750	1.00	11.92	D	C
	ATOM	3652	CG	PHE	D	567	37.818	55.708	66.494	1.00	10.60	D	C
	ATOM	3653	CD1	PHE	D	567	38.563	56.844	66.193	1.00	11.58	D	C
	ATOM	3654	CD2	PHE	D	567	38.470	54.489	66.573	1.00	12.10	D	C
	ATOM	3655	CE1	PHE	D	567	39.939	56.774	65.978	1.00	9.17	D	C
	ATOM	3656	CE2	PHE	D	567	39.849	54.409	66.359	1.00	11.50	D	C
65	ATOM	3657	CZ	PHE	D	567	40.582	55.560	66.061	1.00	6.88	D	C
	ATOM	3658	C	PHE	D	567	34.486	56.317	68.282	1.00	10.64	D	C
	ATOM	3659	O	PHE	D	567	33.982	55.338	68.811	1.00	10.55	D	O
	ATOM	3660	N	LEU	D	568	33.783	57.332	67.790	1.00	9.94	D	N

	ATOM	3661	CA	LEU	D	568	32.326	57.359	67.828	1.00	11.76	D	C
	ATOM	3662	CB	LEU	D	568	31.830	58.786	68.037	1.00	11.38	D	C
	ATOM	3663	CG	LEU	D	568	32.203	59.483	69.347	1.00	12.43	D	C
	ATOM	3664	CD1	LEU	D	568	31.431	60.799	69.437	1.00	12.81	D	C
5	ATOM	3665	CD2	LEU	D	568	31.861	58.581	70.535	1.00	8.17	D	C
	ATOM	3666	C	LEU	D	568	31.771	56.846	66.498	1.00	13.02	D	C
	ATOM	3667	O	LEU	D	568	32.416	56.968	65.458	1.00	15.72	D	O
	ATOM	3668	N	PHE	D	569	30.590	56.242	66.540	1.00	12.48	D	N
10	ATOM	3669	CA	PHE	D	569	29.931	55.766	65.323	1.00	14.07	D	C
	ATOM	3670	CB	PHE	D	569	29.369	54.347	65.514	1.00	11.68	D	C
	ATOM	3671	CG	PHE	D	569	28.701	53.781	64.282	1.00	10.47	D	C
	ATOM	3672	CD1	PHE	D	569	29.272	53.952	63.016	1.00	7.38	D	C
	ATOM	3673	CD2	PHE	D	569	27.516	53.060	64.394	1.00	9.75	D	C
	ATOM	3674	CE1	PHE	D	569	28.678	53.407	61.879	1.00	8.13	D	C
15	ATOM	3675	CE2	PHE	D	569	26.903	52.504	63.268	1.00	11.99	D	C
	ATOM	3676	CZ	PHE	D	569	27.488	52.677	61.999	1.00	12.42	D	C
	ATOM	3677	C	PHE	D	569	28.792	56.768	65.106	1.00	13.46	D	C
	ATOM	3678	O	PHE	D	569	27.865	56.847	65.930	1.00	15.13	D	O
	ATOM	3679	N	ARG	D	570	28.885	57.541	64.021	1.00	13.46	D	N
20	ATOM	3680	CA	ARG	D	570	27.900	58.586	63.675	1.00	12.65	D	C
	ATOM	3681	CB	ARG	D	570	28.500	59.965	63.959	1.00	10.02	D	C
	ATOM	3682	CG	ARG	D	570	29.249	60.028	65.285	1.00	8.68	D	C
	ATOM	3683	CD	ARG	D	570	30.092	61.279	65.426	1.00	8.09	D	C
	ATOM	3684	NE	ARG	D	570	29.359	62.476	65.026	1.00	11.75	D	N
25	ATOM	3685	CZ	ARG	D	570	29.879	63.704	65.000	1.00	10.78	D	C
	ATOM	3686	NH1	ARG	D	570	31.137	63.919	65.347	1.00	11.48	D	N
	ATOM	3687	NH2	ARG	D	570	29.148	64.723	64.585	1.00	11.41	D	N
	ATOM	3688	C	ARG	D	570	27.474	58.506	62.207	1.00	14.05	D	C
	ATOM	3689	O	ARG	D	570	27.871	59.332	61.381	1.00	12.62	D	O
30	ATOM	3690	N	PRO	D	571	26.609	57.533	61.877	1.00	13.13	D	N
	ATOM	3691	CD	PRO	D	571	25.981	56.569	62.802	1.00	10.22	D	C
	ATOM	3692	CA	PRO	D	571	26.135	57.336	60.506	1.00	11.31	D	C
	ATOM	3693	CB	PRO	D	571	25.634	55.903	60.522	1.00	9.69	D	C
	ATOM	3694	CG	PRO	D	571	25.027	55.794	61.900	1.00	8.91	D	C
35	ATOM	3695	C	PRO	D	571	25.024	58.271	60.055	1.00	14.14	D	C
	ATOM	3696	O	PRO	D	571	24.364	58.920	60.872	1.00	11.84	D	O
	ATOM	3697	N	HIS	D	572	24.842	58.317	58.732	1.00	12.24	D	N
	ATOM	3698	CA	HIS	D	572	23.776	59.081	58.109	1.00	12.92	D	C
	ATOM	3699	CB	HIS	D	572	23.993	59.154	56.590	1.00	10.83	D	C
40	ATOM	3700	CG	HIS	D	572	24.912	60.258	56.164	1.00	9.54	D	C
	ATOM	3701	CD2	HIS	D	572	24.760	61.232	55.236	1.00	8.50	D	C
	ATOM	3702	ND1	HIS	D	572	26.148	60.466	56.743	1.00	7.34	D	N
	ATOM	3703	CE1	HIS	D	572	26.715	61.523	56.190	1.00	9.80	D	C
	ATOM	3704	NE2	HIS	D	572	25.894	62.006	55.272	1.00	11.29	D	N
45	ATOM	3705	C	HIS	D	572	22.597	58.163	58.424	1.00	11.67	D	C
	ATOM	3706	O	HIS	D	572	22.693	56.946	58.242	1.00	11.00	D	O
	ATOM	3707	N	CYS	D	573	21.493	58.710	58.901	1.00	10.54	D	N
	ATOM	3708	CA	CYS	D	573	20.377	57.846	59.249	1.00	10.95	D	C
	ATOM	3709	CB	CYS	D	573	20.594	57.266	60.650	1.00	10.85	D	C
50	ATOM	3710	SG	CYS	D	573	19.393	55.993	61.156	1.00	14.01	D	S
	ATOM	3711	C	CYS	D	573	19.065	58.587	59.215	1.00	11.32	D	C
	ATOM	3712	O	CYS	D	573	18.975	59.718	59.701	1.00	12.21	D	O
	ATOM	3713	N	GLY	D	574	18.061	57.951	58.617	1.00	9.37	D	N
	ATOM	3714	CA	GLY	D	574	16.738	58.534	58.544	1.00	10.87	D	C
55	ATOM	3715	C	GLY	D	574	16.480	59.575	57.478	1.00	12.61	D	C
	ATOM	3716	O	GLY	D	574	15.448	60.236	57.509	1.00	12.89	D	O
	ATOM	3717	N	GLU	D	575	17.407	59.746	56.544	1.00	14.44	D	N
	ATOM	3718	CA	GLU	D	575	17.204	60.719	55.481	1.00	13.78	D	C
	ATOM	3719	CB	GLU	D	575	18.460	60.888	54.651	1.00	15.25	D	C
60	ATOM	3720	CG	GLU	D	575	18.308	61.953	53.596	1.00	16.02	D	C
	ATOM	3721	CD	GLU	D	575	19.586	62.176	52.840	1.00	17.69	D	C
	ATOM	3722	OE1	GLU	D	575	19.808	63.310	52.361	1.00	22.06	D	O
	ATOM	3723	OE2	GLU	D	575	20.374	61.216	52.730	1.00	16.72	D	O
	ATOM	3724	C	GLU	D	575	16.114	60.165	54.595	1.00	17.23	D	C
65	ATOM	3725	O	GLU	D	575	15.331	60.909	54.013	1.00	18.07	D	O
	ATOM	3726	N	VAL	D	576	16.091	58.840	54.492	1.00	19.65	D	N
	ATOM	3727	CA	VAL	D	576	15.096	58.112	53.713	1.00	21.44	D	C
	ATOM	3728	CB	VAL	D	576	15.248	58.318	52.201	1.00	24.21	D	C

	ATOM	3729	CG1	VAL	D	576	14.470	59.539	51.774	1.00	31.07	D	C
	ATOM	3730	CG2	VAL	D	576	16.705	58.441	51.822	1.00	30.08	D	C
	ATOM	3731	C	VAL	D	576	15.281	56.640	53.992	1.00	20.03	D	C
	ATOM	3732	O	VAL	D	576	16.111	56.264	54.818	1.00	19.15	D	O
5	ATOM	3733	N	GLY	D	577	14.513	55.807	53.300	1.00	16.68	D	N
	ATOM	3734	CA	GLY	D	577	14.629	54.382	53.523	1.00	16.39	D	C
	ATOM	3735	C	GLY	D	577	13.717	53.940	54.651	1.00	16.40	D	C
	ATOM	3736	O	GLY	D	577	12.877	54.716	55.117	1.00	14.87	D	O
10	ATOM	3737	N	ALA	D	578	13.892	52.695	55.091	1.00	17.31	D	N
	ATOM	3738	CA	ALA	D	578	13.089	52.093	56.161	1.00	18.43	D	C
	ATOM	3739	CB	ALA	D	578	13.363	50.592	56.215	1.00	14.71	D	C
	ATOM	3740	C	ALA	D	578	13.307	52.709	57.550	1.00	18.88	D	C
	ATOM	3741	O	ALA	D	578	14.379	53.236	57.857	1.00	17.82	D	O
	ATOM	3742	N	LEU	D	579	12.278	52.629	58.387	1.00	21.26	D	N
15	ATOM	3743	CA	LEU	D	579	12.352	53.162	59.748	1.00	23.45	D	C
	ATOM	3744	CB	LEU	D	579	10.988	53.071	60.431	1.00	24.52	D	C
	ATOM	3745	CG	LEU	D	579	9.998	54.176	60.106	1.00	26.08	D	C
	ATOM	3746	CD1	LEU	D	579	8.698	53.876	60.823	1.00	29.29	D	C
	ATOM	3747	CD2	LEU	D	579	10.562	55.528	60.527	1.00	31.61	D	C
20	ATOM	3748	C	LEU	D	579	13.350	52.348	60.554	1.00	23.33	D	C
	ATOM	3749	O	LEU	D	579	13.982	52.857	61.481	1.00	26.78	D	O
	ATOM	3750	N	THR	D	580	13.479	51.074	60.200	1.00	21.98	D	N
	ATOM	3751	CA	THR	D	580	14.394	50.202	60.895	1.00	21.04	D	C
	ATOM	3752	CB	THR	D	580	14.413	48.798	60.257	1.00	23.05	D	C
25	ATOM	3753	OG1	THR	D	580	14.806	48.890	58.884	1.00	22.65	D	O
	ATOM	3754	CG2	THR	D	580	13.037	48.177	60.327	1.00	22.04	D	C
	ATOM	3755	C	THR	D	580	15.802	50.786	60.900	1.00	20.63	D	C
	ATOM	3756	O	THR	D	580	16.645	50.341	61.665	1.00	21.74	D	O
	ATOM	3757	N	HIS	D	581	16.064	51.763	60.034	1.00	18.45	D	N
30	ATOM	3758	CA	HIS	D	581	17.381	52.389	60.003	1.00	17.65	D	C
	ATOM	3759	CB	HIS	D	581	17.511	53.376	58.844	1.00	17.82	D	C
	ATOM	3760	CG	HIS	D	581	17.591	52.728	57.501	1.00	16.64	D	C
	ATOM	3761	CD2	HIS	D	581	17.402	51.446	57.116	1.00	16.40	D	C
	ATOM	3762	ND1	HIS	D	581	17.841	53.443	56.353	1.00	17.54	D	N
35	ATOM	3763	CE1	HIS	D	581	17.801	52.628	55.315	1.00	19.08	D	C
	ATOM	3764	NE2	HIS	D	581	17.536	51.409	55.751	1.00	19.34	D	N
	ATOM	3765	C	HIS	D	581	17.580	53.164	61.293	1.00	16.30	D	C
	ATOM	3766	O	HIS	D	581	18.664	53.155	61.868	1.00	15.51	D	O
	ATOM	3767	N	LEU	D	582	16.522	53.838	61.739	1.00	14.38	D	N
40	ATOM	3768	CA	LEU	D	582	16.591	54.649	62.946	1.00	14.83	D	C
	ATOM	3769	CB	LEU	D	582	15.416	55.629	62.957	1.00	11.86	D	C
	ATOM	3770	CG	LEU	D	582	15.649	56.765	61.947	1.00	11.05	D	C
	ATOM	3771	CD1	LEU	D	582	14.332	57.390	61.546	1.00	11.54	D	C
	ATOM	3772	CD2	LEU	D	582	16.574	57.822	62.551	1.00	9.45	D	C
45	ATOM	3773	C	LEU	D	582	16.619	53.773	64.197	1.00	14.66	D	C
	ATOM	3774	O	LEU	D	582	17.218	54.115	65.214	1.00	14.67	D	O
	ATOM	3775	N	MET	D	583	15.979	52.620	64.101	1.00	16.64	D	N
	ATOM	3776	CA	MET	D	583	15.948	51.684	65.203	1.00	16.98	D	C
	ATOM	3777	CB	MET	D	583	15.011	50.535	64.852	1.00	19.50	D	C
50	ATOM	3778	CG	MET	D	583	14.835	49.525	65.943	1.00	26.31	D	C
	ATOM	3779	SD	MET	D	583	15.622	47.992	65.462	1.00	39.55	D	S
	ATOM	3780	CE	MET	D	583	17.226	48.233	66.034	1.00	32.24	D	C
	ATOM	3781	C	MET	D	583	17.372	51.183	65.438	1.00	18.12	D	C
	ATOM	3782	O	MET	D	583	17.854	51.152	66.573	1.00	18.50	D	O
55	ATOM	3783	N	THR	D	584	18.054	50.807	64.361	1.00	13.50	D	N
	ATOM	3784	CA	THR	D	584	19.420	50.307	64.441	1.00	12.80	D	C
	ATOM	3785	CB	THR	D	584	19.900	49.839	63.043	1.00	15.60	D	C
	ATOM	3786	OG1	THR	D	584	19.045	48.789	62.591	1.00	15.36	D	O
	ATOM	3787	CG2	THR	D	584	21.331	49.314	63.090	1.00	14.61	D	C
60	ATOM	3788	C	THR	D	584	20.384	51.358	64.993	1.00	11.85	D	C
	ATOM	3789	O	THR	D	584	21.298	51.032	65.743	1.00	12.14	D	O
	ATOM	3790	N	ALA	D	585	20.186	52.616	64.612	1.00	10.07	D	N
	ATOM	3791	CA	ALA	D	585	21.036	53.698	65.101	1.00	10.91	D	C
	ATOM	3792	CB	ALA	D	585	20.730	54.993	64.350	1.00	7.85	D	C
65	ATOM	3793	C	ALA	D	585	20.793	53.897	66.599	1.00	11.25	D	C
	ATOM	3794	O	ALA	D	585	21.701	54.266	67.334	1.00	10.23	D	O
	ATOM	3795	N	PHE	D	586	19.554	53.675	67.036	1.00	11.90	D	N
	ATOM	3796	CA	PHE	D	586	19.217	53.807	68.443	1.00	12.65	D	C

	ATOM	3797	CB	PHE	D	586	17.734	53.481	68.679	1.00	12.28	D	C
	ATOM	3798	CG	PHE	D	586	17.310	53.562	70.141	1.00	15.04	D	C
	ATOM	3799	CD1	PHE	D	586	17.072	54.797	70.748	1.00	13.83	D	C
	ATOM	3800	CD2	PHE	D	586	17.162	52.397	70.907	1.00	14.12	D	C
5	ATOM	3801	CE1	PHE	D	586	16.696	54.875	72.090	1.00	16.68	D	C
	ATOM	3802	CE2	PHE	D	586	16.787	52.460	72.244	1.00	11.98	D	C
	ATOM	3803	CZ	PHE	D	586	16.553	53.700	72.843	1.00	12.85	D	C
	ATOM	3804	C	PHE	D	586	20.105	52.836	69.236	1.00	14.42	D	C
	ATOM	3805	O	PHE	D	586	20.594	53.174	70.314	1.00	15.36	D	O
10	ATOM	3806	N	MET	D	587	20.333	51.649	68.677	1.00	12.29	D	N
	ATOM	3807	CA	MET	D	587	21.159	50.628	69.321	1.00	14.33	D	C
	ATOM	3808	CB	MET	D	587	20.846	49.229	68.760	1.00	11.43	D	C
	ATOM	3809	CG	MET	D	587	19.433	48.732	68.937	1.00	12.81	D	C
	ATOM	3810	SD	MET	D	587	19.204	47.079	68.224	1.00	17.69	D	S
15	ATOM	3811	CE	MET	D	587	20.355	46.056	69.235	1.00	11.35	D	C
	ATOM	3812	C	MET	D	587	22.664	50.796	69.174	1.00	15.63	D	C
	ATOM	3813	O	MET	D	587	23.412	50.395	70.072	1.00	18.72	D	O
	ATOM	3814	N	THR	D	588	23.108	51.394	68.063	1.00	13.77	D	N
	ATOM	3815	CA	THR	D	588	24.540	51.466	67.745	1.00	10.92	D	C
20	ATOM	3816	CB	THR	D	588	24.799	50.670	66.418	1.00	13.63	D	C
	ATOM	3817	OG1	THR	D	588	24.014	51.249	65.362	1.00	12.97	D	O
	ATOM	3818	CG2	THR	D	588	24.390	49.221	66.548	1.00	5.46	D	C
	ATOM	3819	C	THR	D	588	25.275	52.796	67.591	1.00	10.89	D	C
	ATOM	3820	O	THR	D	588	26.508	52.839	67.676	1.00	9.03	D	O
25	ATOM	3821	N	ALA	D	589	24.544	53.873	67.357	1.00	10.08	D	N
	ATOM	3822	CA	ALA	D	589	25.184	55.170	67.119	1.00	12.85	D	C
	ATOM	3823	CB	ALA	D	589	24.542	55.820	65.858	1.00	7.76	D	C
	ATOM	3824	C	ALA	D	589	25.204	56.199	68.257	1.00	12.09	D	C
	ATOM	3825	O	ALA	D	589	24.207	56.402	68.939	1.00	13.40	D	O
30	ATOM	3826	N	ASP	D	590	26.341	56.869	68.430	1.00	12.69	D	N
	ATOM	3827	CA	ASP	D	590	26.465	57.910	69.437	1.00	14.80	D	C
	ATOM	3828	CB	ASP	D	590	27.909	58.425	69.480	1.00	11.92	D	C
	ATOM	3829	CG	ASP	D	590	28.095	59.571	70.469	1.00	16.41	D	C
	ATOM	3830	OD1	ASP	D	590	27.785	60.726	70.100	1.00	16.49	D	O
35	ATOM	3831	OD2	ASP	D	590	28.550	59.329	71.615	1.00	14.92	D	O
	ATOM	3832	C	ASP	D	590	25.489	59.044	69.038	1.00	15.88	D	C
	ATOM	3833	O	ASP	D	590	24.757	59.588	69.866	1.00	17.42	D	O
	ATOM	3834	N	ASN	D	591	25.498	59.396	67.756	1.00	15.99	D	N
	ATOM	3835	CA	ASN	D	591	24.600	60.414	67.197	1.00	13.81	D	C
40	ATOM	3836	CB	ASN	D	591	25.097	61.847	67.489	1.00	8.26	D	C
	ATOM	3837	CG	ASN	D	591	26.478	62.143	66.926	1.00	12.90	D	C
	ATOM	3838	OD1	ASN	D	591	27.479	62.083	67.651	1.00	13.16	D	O
	ATOM	3839	ND2	ASN	D	591	26.545	62.495	65.644	1.00	7.75	D	N
	ATOM	3840	C	ASN	D	591	24.459	60.154	65.687	1.00	12.09	D	C
45	ATOM	3841	O	ASN	D	591	25.161	59.305	65.128	1.00	12.01	D	O
	ATOM	3842	N	ILE	D	592	23.546	60.855	65.030	1.00	13.89	D	N
	ATOM	3843	CA	ILE	D	592	23.328	60.636	63.595	1.00	11.41	D	C
	ATOM	3844	CB	ILE	D	592	21.995	59.872	63.339	1.00	6.81	D	C
	ATOM	3845	CG2	ILE	D	592	22.002	58.532	64.029	1.00	8.05	D	C
50	ATOM	3846	CG1	ILE	D	592	20.819	60.703	63.868	1.00	10.52	D	C
	ATOM	3847	CD1	ILE	D	592	19.444	60.256	63.352	1.00	5.64	D	C
	ATOM	3848	C	ILE	D	592	23.238	61.942	62.818	1.00	13.02	D	C
	ATOM	3849	O	ILE	D	592	23.249	63.036	63.402	1.00	14.29	D	O
	ATOM	3850	N	SER	D	593	23.144	61.810	61.495	1.00	11.61	D	N
55	ATOM	3851	CA	SER	D	593	22.966	62.953	60.611	1.00	10.41	D	C
	ATOM	3852	CB	SER	D	593	24.128	63.057	59.623	1.00	11.05	D	C
	ATOM	3853	OG	SER	D	593	25.336	63.345	60.299	1.00	9.94	D	O
	ATOM	3854	C	SER	D	593	21.644	62.715	59.866	1.00	9.63	D	C
	ATOM	3855	O	SER	D	593	21.348	61.585	59.467	1.00	10.34	D	O
60	ATOM	3856	N	HIS	D	594	20.860	63.784	59.733	1.00	8.98	D	N
	ATOM	3857	CA	HIS	D	594	19.544	63.837	59.063	1.00	10.81	D	C
	ATOM	3858	CB	HIS	D	594	19.462	62.913	57.829	1.00	10.29	D	C
	ATOM	3859	CG	HIS	D	594	20.303	63.372	56.673	1.00	9.61	D	C
	ATOM	3860	CD2	HIS	D	594	21.371	62.800	56.068	1.00	7.40	D	C
65	ATOM	3861	ND1	HIS	D	594	20.140	64.606	56.076	1.00	8.39	D	N
	ATOM	3862	CE1	HIS	D	594	21.078	64.776	55.158	1.00	5.66	D	C
	ATOM	3863	NE2	HIS	D	594	21.837	63.695	55.133	1.00	8.70	D	N
	ATOM	3864	C	HIS	D	594	18.401	63.524	60.015	1.00	11.08	D	C

	ATOM	3865	O	HIS	D	594	17.805	64.439	60.572	1.00	10.57	D	O
	ATOM	3866	N	GLY	D	595	18.089	62.244	60.181	1.00	9.82	D	N
	ATOM	3867	CA	GLY	D	595	17.020	61.839	61.083	1.00	11.87	D	C
	ATOM	3868	C	GLY	D	595	15.596	62.248	60.734	1.00	13.93	D	C
5	ATOM	3869	O	GLY	D	595	14.702	62.174	61.580	1.00	13.17	D	O
	ATOM	3870	N	LEU	D	596	15.364	62.650	59.488	1.00	13.61	D	N
	ATOM	3871	CA	LEU	D	596	14.044	63.097	59.070	1.00	11.76	D	C
	ATOM	3872	CB	LEU	D	596	14.087	63.519	57.593	1.00	13.43	D	C
10	ATOM	3873	CG	LEU	D	596	15.156	64.563	57.239	1.00	15.31	D	C
	ATOM	3874	CD1	LEU	D	596	15.359	64.644	55.731	1.00	12.67	D	C
	ATOM	3875	CD2	LEU	D	596	14.712	65.918	57.802	1.00	15.10	D	C
	ATOM	3876	C	LEU	D	596	12.924	62.075	59.285	1.00	11.86	D	C
	ATOM	3877	O	LEU	D	596	11.817	62.429	59.686	1.00	9.59	D	O
	ATOM	3878	N	ASN	D	597	13.198	60.803	59.031	1.00	12.50	D	N
15	ATOM	3879	CA	ASN	D	597	12.146	59.806	59.186	1.00	14.68	D	C
	ATOM	3880	CB	ASN	D	597	12.592	58.470	58.548	1.00	14.36	D	C
	ATOM	3881	CG	ASN	D	597	12.392	58.455	57.027	1.00	17.33	D	C
	ATOM	3882	OD1	ASN	D	597	11.703	59.308	56.485	1.00	16.82	D	O
	ATOM	3883	ND2	ASN	D	597	12.997	57.484	56.341	1.00	17.91	D	N
20	ATOM	3884	C	ASN	D	597	11.645	59.606	60.631	1.00	14.90	D	C
	ATOM	3885	O	ASN	D	597	10.715	58.818	60.866	1.00	12.23	D	O
	ATOM	3886	N	LEU	D	598	12.248	60.297	61.601	1.00	12.57	D	N
	ATOM	3887	CA	LEU	D	598	11.757	60.178	62.986	1.00	15.10	D	C
	ATOM	3888	CB	LEU	D	598	12.638	60.983	63.956	1.00	11.19	D	C
25	ATOM	3889	CG	LEU	D	598	13.979	60.305	64.275	1.00	12.28	D	C
	ATOM	3890	CD1	LEU	D	598	14.865	61.251	65.080	1.00	12.92	D	C
	ATOM	3891	CD2	LEU	D	598	13.734	58.998	65.039	1.00	10.16	D	C
	ATOM	3892	C	LEU	D	598	10.314	60.712	63.023	1.00	14.68	D	C
	ATOM	3893	O	LEU	D	598	9.508	60.339	63.871	1.00	15.65	D	O
30	ATOM	3894	N	LYS	D	599	10.007	61.592	62.080	1.00	16.20	D	N
	ATOM	3895	CA	LYS	D	599	8.685	62.200	61.944	1.00	19.14	D	C
	ATOM	3896	CB	LYS	D	599	8.662	63.143	60.740	1.00	21.41	D	C
	ATOM	3897	CG	LYS	D	599	8.968	64.571	61.078	1.00	32.54	D	C
	ATOM	3898	CD	LYS	D	599	7.677	65.391	61.235	1.00	40.44	D	C
35	ATOM	3899	CE	LYS	D	599	7.671	66.210	62.528	1.00	36.63	D	C
	ATOM	3900	NZ	LYS	D	599	6.812	65.558	63.549	1.00	41.61	D	N
	ATOM	3901	C	LYS	D	599	7.621	61.146	61.725	1.00	18.26	D	C
	ATOM	3902	O	LYS	D	599	6.457	61.372	62.021	1.00	19.21	D	O
	ATOM	3903	N	LYS	D	600	8.025	59.998	61.193	1.00	18.64	D	N
40	ATOM	3904	CA	LYS	D	600	7.084	58.924	60.907	1.00	18.93	D	C
	ATOM	3905	CB	LYS	D	600	7.486	58.194	59.624	1.00	21.80	D	C
	ATOM	3906	CG	LYS	D	600	7.500	59.048	58.357	1.00	23.99	D	C
	ATOM	3907	CD	LYS	D	600	8.113	58.229	57.224	1.00	28.50	D	C
	ATOM	3908	CE	LYS	D	600	8.347	59.049	55.968	1.00	33.37	D	C
45	ATOM	3909	NZ	LYS	D	600	8.901	58.186	54.875	1.00	36.64	D	N
	ATOM	3910	C	LYS	D	600	6.949	57.890	62.018	1.00	20.66	D	C
	ATOM	3911	O	LYS	D	600	6.128	56.979	61.909	1.00	21.09	D	O
	ATOM	3912	N	SER	D	601	7.750	58.010	63.073	1.00	16.87	D	N
	ATOM	3913	CA	SER	D	601	7.691	57.043	64.165	1.00	16.15	D	C
50	ATOM	3914	CB	SER	D	601	8.925	56.152	64.142	1.00	15.40	D	C
	ATOM	3915	OG	SER	D	601	8.824	55.154	65.140	1.00	22.49	D	O
	ATOM	3916	C	SER	D	601	7.601	57.719	65.525	1.00	15.86	D	C
	ATOM	3917	O	SER	D	601	8.602	58.228	66.037	1.00	13.80	D	O
	ATOM	3918	N	PRO	D	602	6.400	57.718	66.138	1.00	17.54	D	N
55	ATOM	3919	CD	PRO	D	602	5.150	57.090	65.663	1.00	16.57	D	C
	ATOM	3920	CA	PRO	D	602	6.230	58.354	67.455	1.00	15.07	D	C
	ATOM	3921	CB	PRO	D	602	4.748	58.142	67.778	1.00	11.33	D	C
	ATOM	3922	CG	PRO	D	602	4.331	56.972	66.923	1.00	15.02	D	C
	ATOM	3923	C	PRO	D	602	7.141	57.701	68.491	1.00	13.91	D	C
60	ATOM	3924	O	PRO	D	602	7.784	58.384	69.284	1.00	13.85	D	O
	ATOM	3925	N	VAL	D	603	7.210	56.374	68.452	1.00	14.59	D	N
	ATOM	3926	CA	VAL	D	603	8.026	55.637	69.407	1.00	14.90	D	C
	ATOM	3927	CB	VAL	D	603	7.772	54.100	69.297	1.00	13.16	D	C
	ATOM	3928	CG1	VAL	D	603	8.552	53.362	70.378	1.00	13.67	D	C
65	ATOM	3929	CG2	VAL	D	603	6.278	53.803	69.465	1.00	8.23	D	C
	ATOM	3930	C	VAL	D	603	9.519	55.949	69.270	1.00	14.95	D	C
	ATOM	3931	O	VAL	D	603	10.171	56.290	70.263	1.00	15.31	D	O
	ATOM	3932	N	LEU	D	604	10.059	55.868	68.050	1.00	12.61	D	N

	ATOM	3933	CA	LEU	D	604	11.473	56.151	67.855	1.00	11.50	D	C
	ATOM	3934	CB	LEU	D	604	11.915	55.761	66.440	1.00	12.15	D	C
	ATOM	3935	CG	LEU	D	604	12.285	54.296	66.195	1.00	11.18	D	C
	ATOM	3936	CD1	LEU	D	604	12.387	54.025	64.691	1.00	7.72	D	C
5	ATOM	3937	CD2	LEU	D	604	13.606	54.011	66.871	1.00	10.09	D	C
	ATOM	3938	C	LEU	D	604	11.781	57.624	68.115	1.00	11.22	D	C
	ATOM	3939	O	LEU	D	604	12.817	57.957	68.698	1.00	9.59	D	O
	ATOM	3940	N	GLN	D	605	10.889	58.505	67.669	1.00	11.22	D	N
	ATOM	3941	CA	GLN	D	605	11.078	59.937	67.869	1.00	11.03	D	C
10	ATOM	3942	CB	GLN	D	605	9.956	60.733	67.204	1.00	7.30	D	C
	ATOM	3943	CG	GLN	D	605	10.124	62.243	67.365	1.00	8.78	D	C
	ATOM	3944	CD	GLN	D	605	8.990	63.003	66.749	1.00	11.42	D	C
	ATOM	3945	OE1	GLN	D	605	8.340	62.503	65.829	1.00	16.42	D	O
	ATOM	3946	NE2	GLN	D	605	8.735	64.206	67.237	1.00	7.64	D	N
15	ATOM	3947	C	GLN	D	605	11.106	60.260	69.365	1.00	10.12	D	C
	ATOM	3948	O	GLN	D	605	11.913	61.062	69.813	1.00	11.94	D	O
	ATOM	3949	N	TYR	D	606	10.219	59.635	70.129	1.00	9.52	D	N
	ATOM	3950	CA	TYR	D	606	10.167	59.861	71.576	1.00	11.00	D	C
	ATOM	3951	CB	TYR	D	606	8.890	59.240	72.158	1.00	9.94	D	C
20	ATOM	3952	CG	TYR	D	606	8.606	59.677	73.574	1.00	11.68	D	C
	ATOM	3953	CD1	TYR	D	606	8.494	61.028	73.899	1.00	12.58	D	C
	ATOM	3954	CE1	TYR	D	606	8.221	61.439	75.214	1.00	11.34	D	C
	ATOM	3955	CD2	TYR	D	606	8.444	58.736	74.596	1.00	11.77	D	C
	ATOM	3956	CE2	TYR	D	606	8.170	59.133	75.918	1.00	11.25	D	C
25	ATOM	3957	CZ	TYR	D	606	8.058	60.480	76.213	1.00	13.06	D	C
	ATOM	3958	OH	TYR	D	606	7.762	60.865	77.501	1.00	14.91	D	O
	ATOM	3959	C	TYR	D	606	11.409	59.269	72.250	1.00	9.25	D	C
	ATOM	3960	O	TYR	D	606	11.963	59.863	73.178	1.00	10.21	D	O
	ATOM	3961	N	LEU	D	607	11.848	58.103	71.774	1.00	9.51	D	N
30	ATOM	3962	CA	LEU	D	607	13.044	57.452	72.310	1.00	7.23	D	C
	ATOM	3963	CB	LEU	D	607	13.222	56.068	71.677	1.00	7.71	D	C
	ATOM	3964	CG	LEU	D	607	12.336	54.963	72.267	1.00	10.78	D	C
	ATOM	3965	CD1	LEU	D	607	12.502	53.690	71.469	1.00	10.89	D	C
	ATOM	3966	CD2	LEU	D	607	12.702	54.714	73.741	1.00	8.93	D	C
35	ATOM	3967	C	LEU	D	607	14.289	58.305	72.053	1.00	9.66	D	C
	ATOM	3968	O	LEU	D	607	15.201	58.349	72.884	1.00	11.20	D	O
	ATOM	3969	N	PHE	D	608	14.337	58.996	70.914	1.00	8.95	D	N
	ATOM	3970	CA	PHE	D	608	15.496	59.832	70.606	1.00	6.31	D	C
	ATOM	3971	CB	PHE	D	608	15.479	60.269	69.131	1.00	6.06	D	C
40	ATOM	3972	CG	PHE	D	608	16.224	59.327	68.210	1.00	7.81	D	C
	ATOM	3973	CD1	PHE	D	608	15.826	57.996	68.076	1.00	6.77	D	C
	ATOM	3974	CD2	PHE	D	608	17.344	59.761	67.508	1.00	5.53	D	C
	ATOM	3975	CE1	PHE	D	608	16.540	57.114	67.256	1.00	9.29	D	C
	ATOM	3976	CE2	PHE	D	608	18.072	58.883	66.682	1.00	4.26	D	C
45	ATOM	3977	CZ	PHE	D	608	17.672	57.565	66.555	1.00	8.07	D	C
	ATOM	3978	C	PHE	D	608	15.475	61.053	71.529	1.00	8.65	D	C
	ATOM	3979	O	PHE	D	608	16.527	61.620	71.855	1.00	6.67	D	O
	ATOM	3980	N	PHE	D	609	14.274	61.472	71.940	1.00	9.26	D	N
	ATOM	3981	CA	PHE	D	609	14.139	62.605	72.861	1.00	7.13	D	C
50	ATOM	3982	CB	PHE	D	609	12.689	63.081	72.928	1.00	8.72	D	C
	ATOM	3983	CG	PHE	D	609	12.423	64.002	74.087	1.00	9.52	D	C
	ATOM	3984	CD1	PHE	D	609	11.880	63.511	75.277	1.00	9.19	D	C
	ATOM	3985	CD2	PHE	D	609	12.803	65.345	74.026	1.00	6.37	D	C
	ATOM	3986	CE1	PHE	D	609	11.729	64.351	76.398	1.00	6.52	D	C
55	ATOM	3987	CE2	PHE	D	609	12.656	66.186	75.132	1.00	2.76	D	C
	ATOM	3988	CZ	PHE	D	609	12.118	65.686	76.322	1.00	3.90	D	C
	ATOM	3989	C	PHE	D	609	14.563	62.125	74.261	1.00	10.32	D	C
	ATOM	3990	O	PHE	D	609	15.366	62.758	74.945	1.00	10.53	D	O
	ATOM	3991	N	LEU	D	610	14.015	60.994	74.685	1.00	9.53	D	N
60	ATOM	3992	CA	LEU	D	610	14.355	60.455	75.995	1.00	11.19	D	C
	ATOM	3993	CB	LEU	D	610	13.601	59.146	76.243	1.00	7.51	D	C
	ATOM	3994	CG	LEU	D	610	12.095	59.282	76.454	1.00	9.07	D	C
	ATOM	3995	CD1	LEU	D	610	11.509	57.915	76.688	1.00	8.25	D	C
	ATOM	3996	CD2	LEU	D	610	11.788	60.213	77.640	1.00	8.85	D	C
65	ATOM	3997	C	LEU	D	610	15.862	60.221	76.190	1.00	12.71	D	C
	ATOM	3998	O	LEU	D	610	16.411	60.537	77.255	1.00	14.54	D	O
	ATOM	3999	N	ALA	D	611	16.528	59.665	75.179	1.00	10.66	D	N
	ATOM	4000	CA	ALA	D	611	17.959	59.401	75.277	1.00	9.32	D	C

5	ATOM	4001	CB	ALA	D	611	18.323	58.148	74.468	1.00	8.90	D	C
	ATOM	4002	C	ALA	D	611	18.791	60.600	74.805	1.00	9.54	D	C
	ATOM	4003	O	ALA	D	611	20.017	60.555	74.797	1.00	10.01	D	O
	ATOM	4004	N	GLN	D	612	18.114	61.680	74.439	1.00	11.52	D	N
	ATOM	4005	CA	GLN	D	612	18.772	62.891	73.949	1.00	11.52	D	C
	ATOM	4006	CB	GLN	D	612	19.349	63.687	75.119	1.00	12.30	D	C
	ATOM	4007	CG	GLN	D	612	18.297	64.479	75.889	1.00	12.77	D	C
	ATOM	4008	CD	GLN	D	612	17.651	65.559	75.041	1.00	15.60	D	C
10	ATOM	4009	OE1	GLN	D	612	18.260	66.597	74.787	1.00	15.00	D	O
	ATOM	4010	NE2	GLN	D	612	16.411	65.321	74.600	1.00	9.06	D	N
	ATOM	4011	C	GLN	D	612	19.864	62.609	72.909	1.00	13.08	D	C
	ATOM	4012	O	GLN	D	612	20.960	63.167	72.979	1.00	13.47	D	O
15	ATOM	4013	N	ILE	D	613	19.555	61.741	71.943	1.00	12.62	D	N
	ATOM	4014	CA	ILE	D	613	20.502	61.395	70.885	1.00	9.67	D	C
	ATOM	4015	CB	ILE	D	613	19.969	60.206	70.065	1.00	9.34	D	C
	ATOM	4016	CG2	ILE	D	613	20.976	59.830	68.978	1.00	10.34	D	C
20	ATOM	4017	CG1	ILE	D	613	19.660	59.032	70.997	1.00	7.38	D	C
	ATOM	4018	CD1	ILE	D	613	19.133	57.799	70.305	1.00	2.72	D	C
	ATOM	4019	C	ILE	D	613	20.695	62.605	69.944	1.00	10.92	D	C
	ATOM	4020	O	ILE	D	613	19.738	63.077	69.331	1.00	12.58	D	O
25	ATOM	4021	N	PRO	D	614	21.929	63.135	69.836	1.00	11.23	D	N
	ATOM	4022	CD	PRO	D	614	23.177	62.723	70.519	1.00	11.56	D	C
	ATOM	4023	CA	PRO	D	614	22.139	64.286	68.940	1.00	11.01	D	C
	ATOM	4024	CB	PRO	D	614	23.599	64.689	69.177	1.00	10.09	D	C
30	ATOM	4025	CG	PRO	D	614	23.998	63.983	70.503	1.00	10.27	D	C
	ATOM	4026	C	PRO	D	614	21.884	63.963	67.465	1.00	12.45	D	C
	ATOM	4027	O	PRO	D	614	22.203	62.869	66.978	1.00	10.63	D	O
	ATOM	4028	N	ILE	D	615	21.305	64.934	66.771	1.00	11.49	D	N
35	ATOM	4029	CA	ILE	D	615	20.983	64.812	65.358	1.00	10.71	D	C
	ATOM	4030	CB	ILE	D	615	19.444	64.700	65.131	1.00	12.04	D	C
	ATOM	4031	CG2	ILE	D	615	19.147	64.509	63.646	1.00	10.42	D	C
	ATOM	4032	CG1	ILE	D	615	18.867	63.543	65.953	1.00	10.41	D	C
40	ATOM	4033	CD1	ILE	D	615	17.407	63.740	66.332	1.00	9.46	D	C
	ATOM	4034	C	ILE	D	615	21.476	66.040	64.610	1.00	10.01	D	C
	ATOM	4035	O	ILE	D	615	21.044	67.158	64.900	1.00	10.67	D	O
	ATOM	4036	N	ALA	D	616	22.401	65.837	63.672	1.00	8.83	D	N
45	ATOM	4037	CA	ALA	D	616	22.912	66.928	62.840	1.00	9.12	D	C
	ATOM	4038	CB	ALA	D	616	24.324	66.598	62.348	1.00	7.87	D	C
	ATOM	4039	C	ALA	D	616	21.938	66.998	61.658	1.00	9.18	D	C
	ATOM	4040	O	ALA	D	616	21.798	66.022	60.928	1.00	8.67	D	O
50	ATOM	4041	N	MET	D	617	21.228	68.113	61.504	1.00	9.24	D	N
	ATOM	4042	CA	MET	D	617	20.272	68.273	60.397	1.00	10.35	D	C
	ATOM	4043	CB	MET	D	617	18.909	68.725	60.928	1.00	8.78	D	C
	ATOM	4044	CG	MET	D	617	18.368	67.848	62.055	1.00	13.74	D	C
55	ATOM	4045	SD	MET	D	617	16.560	67.874	62.212	1.00	19.04	D	S
	ATOM	4046	CE	MET	D	617	16.410	69.070	63.301	1.00	22.26	D	C
	ATOM	4047	C	MET	D	617	20.801	69.289	59.360	1.00	12.53	D	C
	ATOM	4048	O	MET	D	617	21.567	70.199	59.711	1.00	12.89	D	O
60	ATOM	4049	N	SER	D	618	20.388	69.123	58.096	1.00	13.26	D	N
	ATOM	4050	CA	SER	D	618	20.827	69.975	56.972	1.00	13.35	D	C
	ATOM	4051	CB	SER	D	618	21.788	69.195	56.073	1.00	14.71	D	C
	ATOM	4052	OG	SER	D	618	22.875	68.651	56.790	1.00	15.85	D	O
65	ATOM	4053	C	SER	D	618	19.633	70.398	56.118	1.00	12.96	D	C
	ATOM	4054	O	SER	D	618	19.427	69.856	55.039	1.00	11.65	D	O
	ATOM	4055	N	PRO	D	619	18.833	71.365	56.591	1.00	12.42	D	N
	ATOM	4056	CD	PRO	D	619	18.954	72.080	57.877	1.00	9.76	D	C
70	ATOM	4057	CA	PRO	D	619	17.663	71.803	55.817	1.00	12.20	D	C
	ATOM	4058	CB	PRO	D	619	17.031	72.887	56.701	1.00	13.32	D	C
	ATOM	4059	CG	PRO	D	619	17.547	72.550	58.115	1.00	14.17	D	C
	ATOM	4060	C	PRO	D	619	17.880	72.268	54.363	1.00	13.40	D	C
75	ATOM	4061	O	PRO	D	619	17.032	72.003	53.512	1.00	13.56	D	O
	ATOM	4062	N	LEU	D	620	18.981	72.961	54.074	1.00	11.78	D	N
	ATOM	4063	CA	LEU	D	620	19.252	73.416	52.713	1.00	10.92	D	C
	ATOM	4064	CB	LEU	D	620	20.443	74.382	52.694	1.00	9.09	D	C
80	ATOM	4065	CG	LEU	D	620	20.088	75.835	53.044	1.00	10.80	D	C
	ATOM	4066	CD1	LEU	D	620	21.334	76.720	52.974	1.00	9.90	D	C
	ATOM	4067	CD2	LEU	D	620	19.028	76.357	52.074	1.00	13.02	D	C
	ATOM	4068	C	LEU	D	620	19.518	72.205	51.804	1.00	13.26	D	C

	ATOM	4069	O	LEU	D	620	19.002	72.124	50.681	1.00	12.32	D	O
	ATOM	4070	N	SER	D	621	20.321	71.261	52.282	1.00	13.41	D	N
	ATOM	4071	CA	SER	D	621	20.581	70.055	51.509	1.00	14.58	D	C
	ATOM	4072	CB	SER	D	621	21.646	69.204	52.195	1.00	16.91	D	C
5	ATOM	4073	OG	SER	D	621	21.541	67.849	51.799	1.00	12.85	D	O
	ATOM	4074	C	SER	D	621	19.272	69.245	51.342	1.00	17.50	D	C
	ATOM	4075	O	SER	D	621	18.948	68.796	50.234	1.00	17.80	D	O
	ATOM	4076	N	ASN	D	622	18.509	69.075	52.423	1.00	14.25	D	N
10	ATOM	4077	CA	ASN	D	622	17.252	68.335	52.350	1.00	14.53	D	C
	ATOM	4078	CB	ASN	D	622	16.538	68.317	53.709	1.00	14.68	D	C
	ATOM	4079	CG	ASN	D	622	17.294	67.533	54.790	1.00	17.08	D	C
	ATOM	4080	OD1	ASN	D	622	17.052	67.740	55.978	1.00	16.35	D	O
	ATOM	4081	ND2	ASN	D	622	18.191	66.634	54.388	1.00	14.34	D	N
	ATOM	4082	C	ASN	D	622	16.317	69.010	51.343	1.00	16.23	D	C
15	ATOM	4083	O	ASN	D	622	15.614	68.342	50.588	1.00	14.52	D	O
	ATOM	4084	N	ASN	D	623	16.296	70.340	51.360	1.00	17.04	D	N
	ATOM	4085	CA	ASN	D	623	15.439	71.111	50.470	1.00	21.02	D	C
	ATOM	4086	CB	ASN	D	623	15.615	72.611	50.735	1.00	18.59	D	C
	ATOM	4087	CG	ASN	D	623	14.889	73.493	49.715	1.00	17.34	D	C
20	ATOM	4088	OD1	ASN	D	623	15.514	74.282	48.997	1.00	17.93	D	O
	ATOM	4089	ND2	ASN	D	623	13.575	73.375	49.660	1.00	12.23	D	N
	ATOM	4090	C	ASN	D	623	15.774	70.787	49.026	1.00	26.93	D	C
	ATOM	4091	O	ASN	D	623	14.890	70.724	48.183	1.00	29.64	D	O
	ATOM	4092	N	SER	D	624	17.054	70.552	48.752	1.00	32.81	D	N
25	ATOM	4093	CA	SER	D	624	17.504	70.245	47.399	1.00	38.99	D	C
	ATOM	4094	CB	SER	D	624	19.027	70.165	47.349	1.00	40.28	D	C
	ATOM	4095	OG	SER	D	624	19.541	71.286	46.652	1.00	42.52	D	O
	ATOM	4096	C	SER	D	624	16.904	68.992	46.763	1.00	41.40	D	C
	ATOM	4097	O	SER	D	624	17.040	68.784	45.558	1.00	41.75	D	O
30	ATOM	4098	N	LEU	D	625	16.250	68.157	47.561	1.00	45.63	D	N
	ATOM	4099	CA	LEU	D	625	15.604	66.970	47.017	1.00	48.12	D	C
	ATOM	4100	CB	LEU	D	625	16.608	65.820	46.862	1.00	50.53	D	C
	ATOM	4101	CG	LEU	D	625	16.552	65.046	45.523	1.00	55.66	D	C
	ATOM	4102	CD1	LEU	D	625	16.601	63.531	45.787	1.00	55.06	D	C
35	ATOM	4103	CD2	LEU	D	625	15.281	65.412	44.730	1.00	55.77	D	C
	ATOM	4104	C	LEU	D	625	14.425	66.505	47.867	1.00	48.35	D	C
	ATOM	4105	O	LEU	D	625	13.292	66.983	47.727	1.00	48.44	D	O
	ATOM	4106	N	PHE	D	626	14.720	65.566	48.754	1.00	47.67	D	N
	ATOM	4107	CA	PHE	D	626	13.742	64.976	49.645	1.00	43.89	D	C
40	ATOM	4108	CB	PHE	D	626	14.483	64.315	50.812	1.00	41.98	D	C
	ATOM	4109	CG	PHE	D	626	15.455	63.252	50.374	1.00	44.95	D	C
	ATOM	4110	CD1	PHE	D	626	14.991	62.054	49.801	1.00	44.08	D	C
	ATOM	4111	CD2	PHE	D	626	16.836	63.446	50.499	1.00	45.95	D	C
	ATOM	4112	CE1	PHE	D	626	15.890	61.055	49.350	1.00	43.84	D	C
45	ATOM	4113	CE2	PHE	D	626	17.757	62.448	50.049	1.00	46.24	D	C
	ATOM	4114	CZ	PHE	D	626	17.277	61.251	49.473	1.00	44.15	D	C
	ATOM	4115	C	PHE	D	626	12.631	65.886	50.173	1.00	43.44	D	C
	ATOM	4116	O	PHE	D	626	11.457	65.543	50.056	1.00	46.51	D	O
	ATOM	4117	N	LEU	D	627	12.970	67.052	50.711	1.00	39.40	D	N
50	ATOM	4118	CA	LEU	D	627	11.934	67.895	51.307	1.00	37.86	D	C
	ATOM	4119	CB	LEU	D	627	11.960	67.701	52.824	1.00	36.48	D	C
	ATOM	4120	CG	LEU	D	627	10.704	67.220	53.541	1.00	33.27	D	C
	ATOM	4121	CD1	LEU	D	627	10.963	67.306	55.035	1.00	30.00	D	C
	ATOM	4122	CD2	LEU	D	627	9.495	68.038	53.108	1.00	30.23	D	C
55	ATOM	4123	C	LEU	D	627	11.993	69.384	51.029	1.00	37.44	D	C
	ATOM	4124	O	LEU	D	627	13.070	69.975	51.015	1.00	41.17	D	O
	ATOM	4125	N	GLU	D	628	10.826	69.995	50.849	1.00	35.50	D	N
	ATOM	4126	CA	GLU	D	628	10.740	71.443	50.601	1.00	34.74	D	C
	ATOM	4127	CB	GLU	D	628	9.333	71.785	50.131	1.00	35.21	D	C
60	ATOM	4128	CG	GLU	D	628	8.802	73.069	50.653	1.00	41.53	D	C
	ATOM	4129	CD	GLU	D	628	7.366	73.258	50.256	1.00	46.94	D	C
	ATOM	4130	OE1	GLU	D	628	6.856	72.385	49.506	1.00	47.92	D	O
	ATOM	4131	OE2	GLU	D	628	6.760	74.270	50.690	1.00	48.14	D	O
	ATOM	4132	C	GLU	D	628	11.089	72.176	51.911	1.00	31.53	D	C
65	ATOM	4133	O	GLU	D	628	10.546	71.842	52.971	1.00	28.76	D	O
	ATOM	4134	N	TYR	D	629	11.973	73.174	51.828	1.00	24.76	D	N
	ATOM	4135	CA	TYR	D	629	12.448	73.867	53.012	1.00	21.65	D	C
	ATOM	4136	CB	TYR	D	629	13.100	75.196	52.667	1.00	20.38	D	C

5	ATOM	4137	CG	TYR	D	629	14.054	75.609	53.763	1.00	17.13	D	C
	ATOM	4138	CD1	TYR	D	629	13.587	76.256	54.915	1.00	21.05	D	C
	ATOM	4139	CE1	TYR	D	629	14.449	76.566	55.974	1.00	20.41	D	C
	ATOM	4140	CD2	TYR	D	629	15.402	75.289	53.692	1.00	15.20	D	C
	ATOM	4141	CE2	TYR	D	629	16.272	75.592	54.734	1.00	16.10	D	C
	ATOM	4142	CZ	TYR	D	629	15.793	76.226	55.874	1.00	21.52	D	C
	ATOM	4143	OH	TYR	D	629	16.656	76.490	56.918	1.00	21.33	D	O
10	ATOM	4144	C	TYR	D	629	11.486	74.086	54.156	1.00	21.99	D	C
	ATOM	4145	O	TYR	D	629	11.717	73.582	55.248	1.00	22.46	D	O
	ATOM	4146	N	ALA	D	630	10.418	74.834	53.920	1.00	22.20	D	N
	ATOM	4147	CA	ALA	D	630	9.442	75.115	54.971	1.00	24.57	D	C
	ATOM	4148	CB	ALA	D	630	8.352	76.022	54.429	1.00	23.67	D	C
15	ATOM	4149	C	ALA	D	630	8.806	73.881	55.625	1.00	25.12	D	C
	ATOM	4150	O	ALA	D	630	8.246	73.982	56.718	1.00	27.56	D	O
	ATOM	4151	N	LYS	D	631	8.897	72.727	54.971	1.00	21.97	D	N
	ATOM	4152	CA	LYS	D	631	8.302	71.499	55.496	1.00	20.45	D	C
	ATOM	4153	CB	LYS	D	631	7.762	70.657	54.338	1.00	24.07	D	C
20	ATOM	4154	CG	LYS	D	631	6.284	70.827	54.072	1.00	30.63	D	C
	ATOM	4155	CD	LYS	D	631	6.005	72.017	53.170	1.00	38.32	D	C
	ATOM	4156	CE	LYS	D	631	4.490	72.285	53.066	1.00	42.81	D	C
	ATOM	4157	NZ	LYS	D	631	4.182	73.539	52.296	1.00	45.79	D	N
	ATOM	4158	C	LYS	D	631	9.268	70.632	56.324	1.00	20.85	D	C
25	ATOM	4159	O	LYS	D	631	8.899	69.556	56.803	1.00	18.52	D	O
	ATOM	4160	N	ASN	D	632	10.503	71.095	56.487	1.00	17.35	D	N
	ATOM	4161	CA	ASN	D	632	11.504	70.345	57.242	1.00	15.86	D	C
	ATOM	4162	CB	ASN	D	632	12.868	71.044	57.116	1.00	13.17	D	C
	ATOM	4163	CG	ASN	D	632	14.030	70.115	57.412	1.00	17.50	D	C
30	ATOM	4164	OD1	ASN	D	632	14.730	69.651	56.500	1.00	16.65	D	O
	ATOM	4165	ND2	ASN	D	632	14.242	69.829	58.690	1.00	10.90	D	N
	ATOM	4166	C	ASN	D	632	11.122	70.207	58.727	1.00	13.52	D	C
	ATOM	4167	O	ASN	D	632	10.744	71.183	59.364	1.00	13.68	D	O
	ATOM	4168	N	PRO	D	633	11.227	68.993	59.296	1.00	15.10	D	N
35	ATOM	4169	CD	PRO	D	633	11.656	67.746	58.638	1.00	16.13	D	C
	ATOM	4170	CA	PRO	D	633	10.891	68.767	60.716	1.00	16.23	D	C
	ATOM	4171	CB	PRO	D	633	10.928	67.255	60.855	1.00	16.02	D	C
	ATOM	4172	CG	PRO	D	633	11.914	66.826	59.791	1.00	16.17	D	C
	ATOM	4173	C	PRO	D	633	11.853	69.452	61.709	1.00	17.04	D	C
40	ATOM	4174	O	PRO	D	633	11.651	69.384	62.921	1.00	15.42	D	O
	ATOM	4175	N	PHE	D	634	12.885	70.119	61.193	1.00	15.05	D	N
	ATOM	4176	CA	PHE	D	634	13.852	70.813	62.032	1.00	14.92	D	C
	ATOM	4177	CB	PHE	D	634	14.754	71.707	61.173	1.00	12.16	D	C
	ATOM	4178	CG	PHE	D	634	15.618	72.638	61.973	1.00	13.43	D	C
45	ATOM	4179	CD1	PHE	D	634	15.258	73.972	62.130	1.00	11.28	D	C
	ATOM	4180	CD2	PHE	D	634	16.779	72.173	62.605	1.00	14.01	D	C
	ATOM	4181	CE1	PHE	D	634	16.032	74.832	62.906	1.00	12.62	D	C
	ATOM	4182	CE2	PHE	D	634	17.564	73.030	63.388	1.00	12.56	D	C
	ATOM	4183	CZ	PHE	D	634	17.187	74.360	63.539	1.00	11.68	D	C
50	ATOM	4184	C	PHE	D	634	13.248	71.652	63.181	1.00	16.78	D	C
	ATOM	4185	O	PHE	D	634	13.634	71.487	64.352	1.00	14.97	D	O
	ATOM	4186	N	LEU	D	635	12.313	72.547	62.861	1.00	14.85	D	N
	ATOM	4187	CA	LEU	D	635	11.731	73.395	63.894	1.00	12.81	D	C
	ATOM	4188	CB	LEU	D	635	10.849	74.469	63.270	1.00	13.55	D	C
55	ATOM	4189	CG	LEU	D	635	10.176	75.409	64.273	1.00	10.16	D	C
	ATOM	4190	CD1	LEU	D	635	11.254	76.187	65.012	1.00	7.14	D	C
	ATOM	4191	CD2	LEU	D	635	9.217	76.342	63.547	1.00	8.48	D	C
	ATOM	4192	C	LEU	D	635	10.922	72.599	64.906	1.00	14.49	D	C
	ATOM	4193	O	LEU	D	635	10.994	72.859	66.109	1.00	16.56	D	O
60	ATOM	4194	N	ASP	D	636	10.144	71.643	64.416	1.00	12.07	D	N
	ATOM	4195	CA	ASP	D	636	9.332	70.790	65.272	1.00	13.20	D	C
	ATOM	4196	CB	ASP	D	636	8.556	69.789	64.428	1.00	12.12	D	C
	ATOM	4197	CG	ASP	D	636	7.516	69.043	65.233	1.00	15.61	D	C
	ATOM	4198	OD1	ASP	D	636	6.737	69.697	65.964	1.00	16.46	D	O
65	ATOM	4199	OD2	ASP	D	636	7.472	67.800	65.135	1.00	16.01	D	O
	ATOM	4200	C	ASP	D	636	10.190	70.018	66.281	1.00	12.77	D	C
	ATOM	4201	O	ASP	D	636	9.862	69.967	67.464	1.00	14.98	D	O
	ATOM	4202	N	PHE	D	637	11.265	69.397	65.800	1.00	9.57	D	N
	ATOM	4203	CA	PHE	D	637	12.177	68.649	66.653	1.00	10.67	D	C
	ATOM	4204	CB	PHE	D	637	13.268	67.965	65.814	1.00	8.30	D	C

	ATOM	4205	CG	PHE	D	637	12.765	66.812	64.975	1.00	11.77	D	C
	ATOM	4206	CD1	PHE	D	637	11.455	66.358	65.087	1.00	9.98	D	C
	ATOM	4207	CD2	PHE	D	637	13.619	66.166	64.078	1.00	13.61	D	C
	ATOM	4208	CE1	PHE	D	637	10.997	65.269	64.320	1.00	13.93	D	C
5	ATOM	4209	CE2	PHE	D	637	13.177	65.077	63.304	1.00	13.12	D	C
	ATOM	4210	CZ	PHE	D	637	11.864	64.625	63.426	1.00	11.16	D	C
	ATOM	4211	C	PHE	D	637	12.842	69.583	67.671	1.00	10.39	D	C
	ATOM	4212	O	PHE	D	637	12.984	69.240	68.842	1.00	8.75	D	O
10	ATOM	4213	N	LEU	D	638	13.245	70.760	67.214	1.00	7.74	D	N
	ATOM	4214	CA	LEU	D	638	13.887	71.730	68.083	1.00	11.16	D	C
	ATOM	4215	CB	LEU	D	638	14.299	72.960	67.285	1.00	12.32	D	C
	ATOM	4216	CG	LEU	D	638	15.064	74.004	68.097	1.00	17.28	D	C
	ATOM	4217	CD1	LEU	D	638	16.462	73.454	68.419	1.00	21.25	D	C
	ATOM	4218	CD2	LEU	D	638	15.160	75.302	67.320	1.00	14.68	D	C
15	ATOM	4219	C	LEU	D	638	12.980	72.169	69.225	1.00	11.10	D	C
	ATOM	4220	O	LEU	D	638	13.398	72.191	70.389	1.00	14.21	D	O
	ATOM	4221	N	GLN	D	639	11.743	72.518	68.886	1.00	8.68	D	N
	ATOM	4222	CA	GLN	D	639	10.765	72.967	69.864	1.00	11.12	D	C
20	ATOM	4223	CB	GLN	D	639	9.487	73.392	69.170	1.00	9.83	D	C
	ATOM	4224	CG	GLN	D	639	9.628	74.689	68.391	1.00	13.91	D	C
	ATOM	4225	CD	GLN	D	639	8.340	75.081	67.717	1.00	14.72	D	C
	ATOM	4226	OE1	GLN	D	639	7.550	74.224	67.313	1.00	17.65	D	O
	ATOM	4227	NE2	GLN	D	639	8.112	76.377	67.601	1.00	17.93	D	N
	ATOM	4228	C	GLN	D	639	10.434	71.891	70.874	1.00	13.06	D	C
25	ATOM	4229	O	GLN	D	639	10.317	72.172	72.057	1.00	13.58	D	O
	ATOM	4230	N	LYS	D	640	10.268	70.663	70.391	1.00	12.96	D	N
	ATOM	4231	CA	LYS	D	640	9.956	69.532	71.246	1.00	11.65	D	C
	ATOM	4232	CB	LYS	D	640	9.649	68.305	70.391	1.00	11.39	D	C
30	ATOM	4233	CG	LYS	D	640	8.381	68.441	69.565	1.00	12.26	D	C
	ATOM	4234	CD	LYS	D	640	8.142	67.182	68.767	1.00	8.36	D	C
	ATOM	4235	CE	LYS	D	640	6.747	67.156	68.170	1.00	5.41	D	C
	ATOM	4236	NZ	LYS	D	640	6.683	66.099	67.118	1.00	7.58	D	N
	ATOM	4237	C	LYS	D	640	11.076	69.196	72.232	1.00	11.92	D	C
35	ATOM	4238	O	LYS	D	640	10.825	68.559	73.243	1.00	11.79	D	O
	ATOM	4239	N	GLY	D	641	12.305	69.616	71.932	1.00	12.54	D	N
	ATOM	4240	CA	GLY	D	641	13.418	69.335	72.823	1.00	10.27	D	C
	ATOM	4241	C	GLY	D	641	14.410	68.270	72.364	1.00	12.97	D	C
	ATOM	4242	O	GLY	D	641	15.282	67.887	73.150	1.00	13.30	D	O
40	ATOM	4243	N	LEU	D	642	14.297	67.758	71.132	1.00	10.81	D	N
	ATOM	4244	CA	LEU	D	642	15.275	66.758	70.680	1.00	9.83	D	C
	ATOM	4245	CB	LEU	D	642	14.904	66.127	69.331	1.00	8.32	D	C
	ATOM	4246	CG	LEU	D	642	13.596	65.391	68.953	1.00	13.29	D	C
	ATOM	4247	CD1	LEU	D	642	13.924	63.960	68.619	1.00	7.83	D	C
45	ATOM	4248	CD2	LEU	D	642	12.516	65.487	70.016	1.00	8.67	D	C
	ATOM	4249	C	LEU	D	642	16.608	67.489	70.543	1.00	9.17	D	C
	ATOM	4250	O	LEU	D	642	16.644	68.706	70.307	1.00	8.53	D	O
	ATOM	4251	N	MET	D	643	17.698	66.747	70.711	1.00	11.19	D	N
	ATOM	4252	CA	MET	D	643	19.049	67.294	70.644	1.00	13.58	D	C
50	ATOM	4253	CB	MET	D	643	20.019	66.288	71.303	1.00	19.12	D	C
	ATOM	4254	CG	MET	D	643	21.074	66.906	72.227	1.00	20.50	D	C
	ATOM	4255	SD	MET	D	643	22.456	67.594	71.303	1.00	29.14	D	S
	ATOM	4256	CE	MET	D	643	23.768	67.498	72.495	1.00	19.72	D	C
	ATOM	4257	C	MET	D	643	19.457	67.584	69.180	1.00	13.69	D	C
55	ATOM	4258	O	MET	D	643	20.075	66.750	68.518	1.00	10.55	D	O
	ATOM	4259	N	ILE	D	644	19.138	68.787	68.714	1.00	12.36	D	N
	ATOM	4260	CA	ILE	D	644	19.392	69.196	67.334	1.00	13.52	D	C
	ATOM	4261	CB	ILE	D	644	18.103	69.854	66.728	1.00	15.86	D	C
	ATOM	4262	CG2	ILE	D	644	18.331	70.208	65.289	1.00	15.36	D	C
60	ATOM	4263	CG1	ILE	D	644	16.900	68.919	66.848	1.00	13.70	D	C
	ATOM	4264	CD1	ILE	D	644	17.099	67.595	66.219	1.00	13.69	D	C
	ATOM	4265	C	ILE	D	644	20.545	70.179	67.059	1.00	12.88	D	C
	ATOM	4266	O	ILE	D	644	20.774	71.123	67.816	1.00	12.09	D	O
	ATOM	4267	N	SER	D	645	21.273	69.954	65.966	1.00	10.42	D	N
65	ATOM	4268	CA	SER	D	645	22.316	70.902	65.555	1.00	11.05	D	C
	ATOM	4269	CB	SER	D	645	23.732	70.378	65.857	1.00	10.06	D	C
	ATOM	4270	OG	SER	D	645	24.087	69.286	65.031	1.00	8.46	D	O
	ATOM	4271	C	SER	D	645	22.140	71.146	64.046	1.00	13.03	D	C
	ATOM	4272	O	SER	D	645	21.549	70.317	63.343	1.00	12.83	D	O

	ATOM	4273	N	LEU	D	646	22.628	72.283	63.551	1.00	14.60	D	N
	ATOM	4274	CA	LEU	D	646	22.520	72.591	62.127	1.00	14.09	D	C
	ATOM	4275	CB	LEU	D	646	22.214	74.073	61.900	1.00	12.20	D	C
	ATOM	4276	CG	LEU	D	646	20.739	74.456	61.994	1.00	9.81	D	C
5	ATOM	4277	CD1	LEU	D	646	20.616	75.959	61.898	1.00	2.59	D	C
	ATOM	4278	CD2	LEU	D	646	19.938	73.759	60.906	1.00	4.29	D	C
	ATOM	4279	C	LEU	D	646	23.837	72.236	61.462	1.00	15.70	D	C
	ATOM	4280	O	LEU	D	646	24.925	72.444	62.031	1.00	14.56	D	O
10	ATOM	4281	N	SER	D	647	23.737	71.668	60.263	1.00	15.42	D	N
	ATOM	4282	CA	SER	D	647	24.913	71.280	59.506	1.00	13.86	D	C
	ATOM	4283	CB	SER	D	647	25.192	69.795	59.665	1.00	10.36	D	C
	ATOM	4284	OG	SER	D	647	24.083	69.052	59.218	1.00	12.68	D	O
	ATOM	4285	C	SER	D	647	24.733	71.623	58.032	1.00	16.57	D	C
	ATOM	4286	O	SER	D	647	23.628	71.885	57.556	1.00	18.16	D	O
15	ATOM	4287	N	THR	D	648	25.842	71.564	57.315	1.00	13.68	D	N
	ATOM	4288	CA	THR	D	648	25.923	71.938	55.927	1.00	11.50	D	C
	ATOM	4289	CB	THR	D	648	27.241	72.692	55.824	1.00	15.16	D	C
	ATOM	4290	OG1	THR	D	648	27.000	74.022	55.368	1.00	23.64	D	O
	ATOM	4291	CG2	THR	D	648	28.237	71.952	55.013	1.00	11.60	D	C
20	ATOM	4292	C	THR	D	648	25.790	70.804	54.871	1.00	14.89	D	C
	ATOM	4293	O	THR	D	648	25.121	70.976	53.837	1.00	11.40	D	O
	ATOM	4294	N	ASP	D	649	26.402	69.647	55.139	1.00	13.30	D	N
	ATOM	4295	CA	ASP	D	649	26.373	68.496	54.215	1.00	13.74	D	C
	ATOM	4296	CB	ASP	D	649	24.959	68.272	53.667	1.00	13.06	D	C
25	ATOM	4297	CG	ASP	D	649	24.787	66.910	53.007	1.00	15.12	D	C
	ATOM	4298	OD1	ASP	D	649	25.760	66.130	52.951	1.00	20.09	D	O
	ATOM	4299	OD2	ASP	D	649	23.667	66.609	52.549	1.00	13.34	D	O
	ATOM	4300	C	ASP	D	649	27.358	68.691	53.039	1.00	14.22	D	C
	ATOM	4301	O	ASP	D	649	28.504	68.217	53.100	1.00	10.63	D	O
30	ATOM	4302	N	ASP	D	650	26.914	69.385	51.987	1.00	15.77	D	N
	ATOM	4303	CA	ASP	D	650	27.754	69.662	50.801	1.00	16.34	D	C
	ATOM	4304	CB	ASP	D	650	27.312	68.827	49.601	1.00	18.18	D	C
	ATOM	4305	CG	ASP	D	650	27.611	67.347	49.765	1.00	25.07	D	C
	ATOM	4306	OD1	ASP	D	650	26.752	66.537	49.378	1.00	31.40	D	O
35	ATOM	4307	OD2	ASP	D	650	28.699	66.977	50.266	1.00	27.19	D	O
	ATOM	4308	C	ASP	D	650	27.676	71.130	50.385	1.00	16.27	D	C
	ATOM	4309	O	ASP	D	650	26.891	71.486	49.518	1.00	17.78	D	O
	ATOM	4310	N	PRO	D	651	28.486	72.000	51.005	1.00	16.27	D	N
	ATOM	4311	CD	PRO	D	651	29.461	71.720	52.070	1.00	13.46	D	C
40	ATOM	4312	CA	PRO	D	651	28.463	73.421	50.654	1.00	16.02	D	C
	ATOM	4313	CB	PRO	D	651	29.631	74.010	51.452	1.00	14.18	D	C
	ATOM	4314	CG	PRO	D	651	29.813	73.092	52.573	1.00	14.08	D	C
	ATOM	4315	C	PRO	D	651	28.622	73.684	49.149	1.00	16.88	D	C
	ATOM	4316	O	PRO	D	651	27.964	74.558	48.605	1.00	14.11	D	O
45	ATOM	4317	N	MET	D	652	29.506	72.941	48.486	1.00	18.05	D	N
	ATOM	4318	CA	MET	D	652	29.724	73.153	47.059	1.00	20.67	D	C
	ATOM	4319	CB	MET	D	652	30.754	72.174	46.514	1.00	21.01	D	C
	ATOM	4320	CG	MET	D	652	31.324	72.640	45.169	1.00	27.81	D	C
	ATOM	4321	SD	MET	D	652	32.522	71.477	44.515	1.00	35.86	D	S
50	ATOM	4322	CE	MET	D	652	31.497	70.158	44.124	1.00	23.80	D	C
	ATOM	4323	C	MET	D	652	28.434	73.047	46.244	1.00	19.07	D	C
	ATOM	4324	O	MET	D	652	28.201	73.843	45.336	1.00	16.62	D	O
	ATOM	4325	N	GLN	D	653	27.601	72.068	46.584	1.00	17.16	D	N
	ATOM	4326	CA	GLN	D	653	26.315	71.863	45.915	1.00	18.10	D	C
55	ATOM	4327	CB	GLN	D	653	25.825	70.423	46.127	1.00	17.84	D	C
	ATOM	4328	CG	GLN	D	653	26.292	69.428	45.110	1.00	25.58	D	C
	ATOM	4329	CD	GLN	D	653	27.797	69.208	45.171	1.00	35.12	D	C
	ATOM	4330	OE1	GLN	D	653	28.535	69.557	44.233	1.00	36.56	D	O
	ATOM	4331	NE2	GLN	D	653	28.267	68.630	46.280	1.00	37.90	D	N
60	ATOM	4332	C	GLN	D	653	25.178	72.796	46.386	1.00	16.94	D	C
	ATOM	4333	O	GLN	D	653	24.328	73.194	45.581	1.00	15.36	D	O
	ATOM	4334	N	PHE	D	654	25.144	73.146	47.677	1.00	15.99	D	N
	ATOM	4335	CA	PHE	D	654	24.022	73.959	48.188	1.00	15.71	D	C
	ATOM	4336	CB	PHE	D	654	23.313	73.207	49.320	1.00	16.20	D	C
65	ATOM	4337	CG	PHE	D	654	23.185	71.727	49.089	1.00	18.10	D	C
	ATOM	4338	CD1	PHE	D	654	23.875	70.822	49.888	1.00	15.80	D	C
	ATOM	4339	CD2	PHE	D	654	22.369	71.239	48.076	1.00	16.10	D	C
	ATOM	4340	CE1	PHE	D	654	23.751	69.455	49.681	1.00	17.68	D	C

	ATOM	4341	CE2	PHE	D	654	22.239	69.872	47.856	1.00	15.55	D	C
	ATOM	4342	CZ	PHE	D	654	22.929	68.977	48.660	1.00	17.18	D	C
	ATOM	4343	C	PHE	D	654	24.205	75.386	48.670	1.00	14.86	D	C
	ATOM	4344	O	PHE	D	654	23.219	76.110	48.811	1.00	17.34	D	O
5	ATOM	4345	N	HIS	D	655	25.431	75.809	48.928	1.00	16.22	D	N
	ATOM	4346	CA	HIS	D	655	25.624	77.153	49.465	1.00	18.02	D	C
	ATOM	4347	CB	HIS	D	655	26.406	77.031	50.782	1.00	14.95	D	C
	ATOM	4348	CG	HIS	D	655	25.766	76.084	51.749	1.00	12.88	D	C
	ATOM	4349	CD2	HIS	D	655	25.739	74.731	51.784	1.00	11.77	D	C
10	ATOM	4350	ND1	HIS	D	655	24.933	76.507	52.765	1.00	18.41	D	N
	ATOM	4351	CE1	HIS	D	655	24.418	75.455	53.379	1.00	13.59	D	C
	ATOM	4352	NE2	HIS	D	655	24.891	74.366	52.802	1.00	14.16	D	N
	ATOM	4353	C	HIS	D	655	26.249	78.159	48.512	1.00	18.84	D	C
	ATOM	4354	O	HIS	D	655	26.862	77.785	47.512	1.00	21.56	D	O
15	ATOM	4355	N	PHE	D	656	26.081	79.438	48.822	1.00	18.98	D	N
	ATOM	4356	CA	PHE	D	656	26.591	80.499	47.961	1.00	21.42	D	C
	ATOM	4357	CB	PHE	D	656	25.470	81.475	47.625	1.00	20.12	D	C
	ATOM	4358	CG	PHE	D	656	24.311	80.847	46.916	1.00	22.06	D	C
	ATOM	4359	CD1	PHE	D	656	23.037	80.880	47.466	1.00	22.37	D	C
20	ATOM	4360	CD2	PHE	D	656	24.485	80.256	45.671	1.00	25.16	D	C
	ATOM	4361	CE1	PHE	D	656	21.950	80.336	46.779	1.00	23.61	D	C
	ATOM	4362	CE2	PHE	D	656	23.401	79.709	44.978	1.00	23.90	D	C
	ATOM	4363	CZ	PHE	D	656	22.137	79.752	45.532	1.00	22.85	D	C
	ATOM	4364	C	PHE	D	656	27.763	81.310	48.486	1.00	24.39	D	C
25	ATOM	4365	O	PHE	D	656	28.396	82.038	47.713	1.00	26.24	D	O
	ATOM	4366	N	THR	D	657	28.072	81.187	49.774	1.00	21.84	D	N
	ATOM	4367	CA	THR	D	657	29.143	81.979	50.343	1.00	20.53	D	C
	ATOM	4368	CB	THR	D	657	28.570	82.895	51.428	1.00	22.47	D	C
	ATOM	4369	OG1	THR	D	657	28.460	82.159	52.650	1.00	22.15	D	O
30	ATOM	4370	CG2	THR	D	657	27.171	83.390	51.026	1.00	15.39	D	C
	ATOM	4371	C	THR	D	657	30.287	81.172	50.937	1.00	22.42	D	C
	ATOM	4372	O	THR	D	657	30.214	79.941	51.013	1.00	22.38	D	O
	ATOM	4373	N	LYS	D	658	31.340	81.877	51.363	1.00	23.82	D	N
	ATOM	4374	CA	LYS	D	658	32.513	81.246	51.989	1.00	27.48	D	C
35	ATOM	4375	CB	LYS	D	658	33.731	82.193	51.982	1.00	31.45	D	C
	ATOM	4376	CG	LYS	D	658	33.859	83.099	50.748	1.00	42.88	D	C
	ATOM	4377	CD	LYS	D	658	34.905	82.564	49.726	1.00	47.46	D	C
	ATOM	4378	CE	LYS	D	658	34.398	82.626	48.266	1.00	44.93	D	C
	ATOM	4379	NZ	LYS	D	658	34.082	81.271	47.733	1.00	43.44	D	N
40	ATOM	4380	C	LYS	D	658	32.202	80.861	53.445	1.00	24.82	D	C
	ATOM	4381	O	LYS	D	658	33.049	80.303	54.140	1.00	26.17	D	O
	ATOM	4382	N	GLU	D	659	30.991	81.174	53.899	1.00	22.33	D	N
	ATOM	4383	CA	GLU	D	659	30.564	80.866	55.261	1.00	21.24	D	C
	ATOM	4384	CB	GLU	D	659	30.376	82.160	56.049	1.00	22.88	D	C
45	ATOM	4385	CG	GLU	D	659	31.675	82.918	56.268	1.00	30.85	D	C
	ATOM	4386	CD	GLU	D	659	31.568	83.953	57.369	1.00	35.69	D	C
	ATOM	4387	OE1	GLU	D	659	31.834	83.609	58.546	1.00	40.39	D	O
	ATOM	4388	OE2	GLU	D	659	31.213	85.107	57.056	1.00	36.48	D	O
	ATOM	4389	C	GLU	D	659	29.249	80.100	55.191	1.00	18.94	D	C
50	ATOM	4390	O	GLU	D	659	28.190	80.610	55.583	1.00	16.72	D	O
	ATOM	4391	N	PRO	D	660	29.302	78.850	54.696	1.00	16.28	D	N
	ATOM	4392	CD	PRO	D	660	30.515	78.156	54.236	1.00	13.71	D	C
	ATOM	4393	CA	PRO	D	660	28.115	78.007	54.563	1.00	14.29	D	C
	ATOM	4394	CB	PRO	D	660	28.647	76.733	53.904	1.00	12.39	D	C
55	ATOM	4395	CG	PRO	D	660	30.076	76.732	54.188	1.00	12.87	D	C
	ATOM	4396	C	PRO	D	660	27.337	77.723	55.849	1.00	13.23	D	C
	ATOM	4397	O	PRO	D	660	26.108	77.716	55.824	1.00	12.68	D	O
	ATOM	4398	N	LEU	D	661	28.037	77.493	56.960	1.00	15.07	D	N
	ATOM	4399	CA	LEU	D	661	27.370	77.222	58.236	1.00	12.55	D	C
60	ATOM	4400	CB	LEU	D	661	28.387	76.934	59.348	1.00	14.88	D	C
	ATOM	4401	CG	LEU	D	661	28.172	75.767	60.342	1.00	16.75	D	C
	ATOM	4402	CD1	LEU	D	661	28.589	76.219	61.715	1.00	8.92	D	C
	ATOM	4403	CD2	LEU	D	661	26.728	75.245	60.336	1.00	7.61	D	C
	ATOM	4404	C	LEU	D	661	26.541	78.430	58.623	1.00	11.00	D	C
65	ATOM	4405	O	LEU	D	661	25.365	78.293	58.945	1.00	9.08	D	O
	ATOM	4406	N	MET	D	662	27.149	79.613	58.586	1.00	12.43	D	N
	ATOM	4407	CA	MET	D	662	26.430	80.838	58.944	1.00	14.15	D	C
	ATOM	4408	CB	MET	D	662	27.346	82.052	58.800	1.00	16.81	D	C

5	ATOM	4409	CG	MET	D	662	28.467	82.087	59.839	1.00	19.91	D	C
	ATOM	4410	SD	MET	D	662	27.825	81.913	61.520	1.00	22.50	D	S
	ATOM	4411	CE	MET	D	662	27.533	83.663	61.956	1.00	20.59	D	C
	ATOM	4412	C	MET	D	662	25.218	80.975	58.032	1.00	15.85	D	C
	ATOM	4413	O	MET	D	662	24.159	81.448	58.440	1.00	15.06	D	O
	ATOM	4414	N	GLU	D	663	25.383	80.541	56.789	1.00	15.41	D	N
	ATOM	4415	CA	GLU	D	663	24.301	80.563	55.804	1.00	15.35	D	C
	ATOM	4416	CB	GLU	D	663	24.837	80.087	54.444	1.00	19.46	D	C
10	ATOM	4417	CG	GLU	D	663	24.384	80.889	53.242	1.00	19.54	D	C
	ATOM	4418	CD	GLU	D	663	24.965	80.363	51.929	1.00	19.77	D	C
	ATOM	4419	OE1	GLU	D	663	26.206	80.234	51.835	1.00	17.36	D	O
	ATOM	4420	OE2	GLU	D	663	24.165	80.082	51.006	1.00	20.16	D	O
15	ATOM	4421	C	GLU	D	663	23.138	79.662	56.249	1.00	11.54	D	C
	ATOM	4422	O	GLU	D	663	21.989	80.102	56.218	1.00	9.36	D	O
	ATOM	4423	N	GLU	D	664	23.435	78.411	56.646	1.00	11.87	D	N
	ATOM	4424	CA	GLU	D	664	22.395	77.469	57.125	1.00	13.35	D	C
20	ATOM	4425	CB	GLU	D	664	22.973	76.169	57.667	1.00	12.62	D	C
	ATOM	4426	CG	GLU	D	664	23.365	75.164	56.654	1.00	25.30	D	C
	ATOM	4427	CD	GLU	D	664	22.204	74.409	56.012	1.00	20.71	D	C
	ATOM	4428	OE1	GLU	D	664	21.048	74.407	56.511	1.00	19.52	D	O
25	ATOM	4429	OE2	GLU	D	664	22.484	73.802	54.970	1.00	20.89	D	O
	ATOM	4430	C	GLU	D	664	21.637	78.087	58.285	1.00	12.61	D	C
	ATOM	4431	O	GLU	D	664	20.406	77.994	58.337	1.00	13.74	D	O
	ATOM	4432	N	TYR	D	665	22.389	78.687	59.221	1.00	10.82	D	N
30	ATOM	4433	CA	TYR	D	665	21.816	79.331	60.405	1.00	10.29	D	C
	ATOM	4434	CB	TYR	D	665	22.911	79.820	61.359	1.00	9.73	D	C
	ATOM	4435	CG	TYR	D	665	23.382	78.779	62.356	1.00	13.81	D	C
	ATOM	4436	CD1	TYR	D	665	24.318	77.807	61.993	1.00	10.22	D	C
35	ATOM	4437	CE1	TYR	D	665	24.768	76.844	62.931	1.00	14.77	D	C
	ATOM	4438	CD2	TYR	D	665	22.901	78.772	63.679	1.00	14.03	D	C
	ATOM	4439	CE2	TYR	D	665	23.346	77.816	64.616	1.00	11.26	D	C
	ATOM	4440	CZ	TYR	D	665	24.274	76.859	64.235	1.00	14.15	D	C
40	ATOM	4441	OH	TYR	D	665	24.707	75.898	65.130	1.00	14.52	D	O
	ATOM	4442	C	TYR	D	665	20.936	80.502	60.012	1.00	10.47	D	C
	ATOM	4443	O	TYR	D	665	19.822	80.625	60.523	1.00	11.94	D	O
	ATOM	4444	N	ALA	D	666	21.416	81.344	59.090	1.00	10.49	D	N
45	ATOM	4445	CA	ALA	D	666	20.640	82.510	58.652	1.00	10.73	D	C
	ATOM	4446	CB	ALA	D	666	21.441	83.343	57.656	1.00	8.15	D	C
	ATOM	4447	C	ALA	D	666	19.291	82.148	58.051	1.00	8.78	D	C
	ATOM	4448	O	ALA	D	666	18.251	82.644	58.484	1.00	7.86	D	O
50	ATOM	4449	N	ILE	D	667	19.277	81.266	57.062	1.00	11.71	D	N
	ATOM	4450	CA	ILE	D	667	17.984	80.945	56.476	1.00	11.71	D	C
	ATOM	4451	CB	ILE	D	667	18.117	80.150	55.158	1.00	13.17	D	C
	ATOM	4452	CG2	ILE	D	667	18.764	78.805	55.407	1.00	15.64	D	C
55	ATOM	4453	CG1	ILE	D	667	16.728	79.986	54.534	1.00	15.66	D	C
	ATOM	4454	CD1	ILE	D	667	16.681	79.028	53.374	1.00	24.19	D	C
	ATOM	4455	C	ILE	D	667	17.081	80.208	57.455	1.00	13.21	D	C
	ATOM	4456	O	ILE	D	667	15.860	80.403	57.448	1.00	12.31	D	O
60	ATOM	4457	N	ALA	D	668	17.661	79.362	58.302	1.00	11.44	D	N
	ATOM	4458	CA	ALA	D	668	16.840	78.669	59.295	1.00	12.64	D	C
	ATOM	4459	CB	ALA	D	668	17.689	77.686	60.107	1.00	8.67	D	C
	ATOM	4460	C	ALA	D	668	16.189	79.711	60.224	1.00	13.37	D	C
65	ATOM	4461	O	ALA	D	668	14.996	79.625	60.539	1.00	12.41	D	O
	ATOM	4462	N	ALA	D	669	16.973	80.698	60.646	1.00	12.00	D	N
	ATOM	4463	CA	ALA	D	669	16.452	81.741	61.511	1.00	13.87	D	C
	ATOM	4464	CB	ALA	D	669	17.572	82.690	61.920	1.00	9.99	D	C
70	ATOM	4465	C	ALA	D	669	15.354	82.522	60.790	1.00	17.10	D	C
	ATOM	4466	O	ALA	D	669	14.303	82.820	61.375	1.00	16.21	D	O
	ATOM	4467	N	GLN	D	670	15.600	82.848	59.516	1.00	16.73	D	N
	ATOM	4468	CA	GLN	D	670	14.648	83.628	58.730	1.00	17.03	D	C
75	ATOM	4469	CB	GLN	D	670	15.251	84.020	57.371	1.00	18.16	D	C
	ATOM	4470	CG	GLN	D	670	16.643	84.652	57.407	1.00	23.48	D	C
	ATOM	4471	CD	GLN	D	670	16.602	86.162	57.482	1.00	28.75	D	C
	ATOM	4472	OE1	GLN	D	670	15.631	86.741	57.982	1.00	34.13	D	O
80	ATOM	4473	NE2	GLN	D	670	17.658	86.817	56.986	1.00	28.02	D	N
	ATOM	4474	C	GLN	D	670	13.312	82.923	58.493	1.00	17.80	D	C
	ATOM	4475	O	GLN	D	670	12.242	83.462	58.813	1.00	16.48	D	O
	ATOM	4476	N	VAL	D	671	13.344	81.719	57.932	1.00	16.42	D	N

	ATOM	4477	CA	VAL	D	671	12.077	81.062	57.672	1.00	16.12	D	C
	ATOM	4478	CB	VAL	D	671	12.147	80.153	56.396	1.00	15.81	D	C
	ATOM	4479	CG1	VAL	D	671	13.537	80.141	55.844	1.00	16.73	D	C
5	ATOM	4480	CG2	VAL	D	671	11.615	78.769	56.673	1.00	11.67	D	C
	ATOM	4481	C	VAL	D	671	11.443	80.320	58.851	1.00	16.88	D	C
	ATOM	4482	O	VAL	D	671	10.218	80.226	58.919	1.00	14.62	D	O
	ATOM	4483	N	PHE	D	672	12.244	79.815	59.785	1.00	16.83	D	N
	ATOM	4484	CA	PHE	D	672	11.659	79.135	60.939	1.00	17.67	D	C
10	ATOM	4485	CB	PHE	D	672	12.561	78.008	61.418	1.00	16.04	D	C
	ATOM	4486	CG	PHE	D	672	12.600	76.852	60.485	1.00	15.15	D	C
	ATOM	4487	CD1	PHE	D	672	11.425	76.254	60.060	1.00	17.48	D	C
	ATOM	4488	CD2	PHE	D	672	13.803	76.386	59.990	1.00	15.23	D	C
	ATOM	4489	CE1	PHE	D	672	11.450	75.201	59.142	1.00	17.90	D	C
15	ATOM	4490	CE2	PHE	D	672	13.841	75.343	59.080	1.00	16.82	D	C
	ATOM	4491	CZ	PHE	D	672	12.661	74.748	58.653	1.00	16.83	D	C
	ATOM	4492	C	PHE	D	672	11.400	80.117	62.069	1.00	19.10	D	C
	ATOM	4493	O	PHE	D	672	10.852	79.741	63.099	1.00	20.53	D	O
	ATOM	4494	N	LYS	D	673	11.793	81.372	61.861	1.00	20.09	D	N
20	ATOM	4495	CA	LYS	D	673	11.588	82.435	62.843	1.00	19.90	D	C
	ATOM	4496	CB	LYS	D	673	10.093	82.762	62.927	1.00	19.84	D	C
	ATOM	4497	CG	LYS	D	673	9.634	83.692	61.816	1.00	26.81	D	C
	ATOM	4498	CD	LYS	D	673	8.140	83.629	61.617	1.00	32.61	D	C
	ATOM	4499	CE	LYS	D	673	7.753	82.469	60.711	1.00	38.96	D	C
25	ATOM	4500	NZ	LYS	D	673	6.346	82.574	60.196	1.00	38.54	D	N
	ATOM	4501	C	LYS	D	673	12.155	82.114	64.233	1.00	19.77	D	C
	ATOM	4502	O	LYS	D	673	11.456	82.203	65.248	1.00	20.26	D	O
	ATOM	4503	N	LEU	D	674	13.437	81.763	64.255	1.00	17.32	D	N
	ATOM	4504	CA	LEU	D	674	14.163	81.420	65.474	1.00	17.36	D	C
30	ATOM	4505	CB	LEU	D	674	15.424	80.642	65.094	1.00	14.86	D	C
	ATOM	4506	CG	LEU	D	674	15.421	79.118	64.985	1.00	16.80	D	C
	ATOM	4507	CD1	LEU	D	674	14.054	78.564	64.786	1.00	11.53	D	C
	ATOM	4508	CD2	LEU	D	674	16.334	78.732	63.862	1.00	18.05	D	C
	ATOM	4509	C	LEU	D	674	14.584	82.663	66.268	1.00	16.11	D	C
35	ATOM	4510	O	LEU	D	674	14.971	83.667	65.674	1.00	15.70	D	O
	ATOM	4511	N	SER	D	675	14.521	82.603	67.598	1.00	14.25	D	N
	ATOM	4512	CA	SER	D	675	14.973	83.745	68.415	1.00	13.27	D	C
	ATOM	4513	CB	SER	D	675	14.361	83.686	69.815	1.00	13.76	D	C
	ATOM	4514	OG	SER	D	675	14.876	82.578	70.542	1.00	16.54	D	O
40	ATOM	4515	C	SER	D	675	16.488	83.609	68.527	1.00	12.45	D	C
	ATOM	4516	O	SER	D	675	17.055	82.571	68.157	1.00	11.83	D	O
	ATOM	4517	N	THR	D	676	17.168	84.627	69.029	1.00	14.00	D	N
	ATOM	4518	CA	THR	D	676	18.610	84.487	69.139	1.00	15.80	D	C
	ATOM	4519	CB	THR	D	676	19.297	85.852	69.415	1.00	16.96	D	C
45	ATOM	4520	OG1	THR	D	676	20.435	85.659	70.262	1.00	21.48	D	O
	ATOM	4521	CG2	THR	D	676	18.337	86.806	70.043	1.00	25.14	D	C
	ATOM	4522	C	THR	D	676	18.939	83.432	70.207	1.00	14.99	D	C
	ATOM	4523	O	THR	D	676	19.969	82.760	70.128	1.00	17.26	D	O
	ATOM	4524	N	CYS	D	677	18.043	83.252	71.180	1.00	15.59	D	N
50	ATOM	4525	CA	CYS	D	677	18.246	82.233	72.214	1.00	12.57	D	C
	ATOM	4526	CB	CYS	D	677	17.193	82.358	73.329	1.00	10.89	D	C
	ATOM	4527	SG	CYS	D	677	17.482	81.217	74.739	1.00	16.04	D	S
	ATOM	4528	C	CYS	D	677	18.147	80.848	71.554	1.00	12.98	D	C
	ATOM	4529	O	CYS	D	677	18.923	79.944	71.867	1.00	12.13	D	O
55	ATOM	4530	N	ASP	D	678	17.194	80.688	70.633	1.00	12.42	D	N
	ATOM	4531	CA	ASP	D	678	17.008	79.424	69.897	1.00	10.17	D	C
	ATOM	4532	CB	ASP	D	678	15.881	79.545	68.859	1.00	12.55	D	C
	ATOM	4533	CG	ASP	D	678	14.501	79.690	69.485	1.00	17.28	D	C
	ATOM	4534	OD1	ASP	D	678	14.301	79.184	70.616	1.00	19.17	D	O
60	ATOM	4535	OD2	ASP	D	678	13.614	80.307	68.847	1.00	15.03	D	O
	ATOM	4536	C	ASP	D	678	18.292	79.098	69.143	1.00	10.42	D	C
	ATOM	4537	O	ASP	D	678	18.792	77.981	69.194	1.00	12.52	D	O
	ATOM	4538	N	MET	D	679	18.821	80.088	68.438	1.00	13.03	D	N
	ATOM	4539	CA	MET	D	679	20.050	79.922	67.666	1.00	14.07	D	C
65	ATOM	4540	CB	MET	D	679	20.342	81.205	66.889	1.00	17.53	D	C
	ATOM	4541	CG	MET	D	679	19.234	81.622	65.905	1.00	25.73	D	C
	ATOM	4542	SD	MET	D	679	19.800	83.008	64.863	1.00	35.85	D	S
	ATOM	4543	CE	MET	D	679	18.945	84.369	65.557	1.00	31.18	D	C
	ATOM	4544	C	MET	D	679	21.272	79.568	68.517	1.00	14.30	D	C

5	ATOM	4545	O	MET	D	679	22.070	78.707	68.149	1.00	12.99	D	O
	ATOM	4546	N	CYS	D	680	21.435	80.250	69.647	1.00	15.13	D	N
	ATOM	4547	CA	CYS	D	680	22.584	79.977	70.503	1.00	15.58	D	C
	ATOM	4548	CB	CYS	D	680	22.727	81.081	71.563	1.00	15.69	D	C
	ATOM	4549	SG	CYS	D	680	23.184	82.697	70.842	1.00	24.55	D	S
	ATOM	4550	C	CYS	D	680	22.442	78.595	71.147	1.00	14.01	D	C
	ATOM	4551	O	CYS	D	680	23.445	77.948	71.476	1.00	12.40	D	O
10	ATOM	4552	N	GLU	D	681	21.198	78.142	71.313	1.00	11.25	D	N
	ATOM	4553	CA	GLU	D	681	20.963	76.829	71.889	1.00	11.41	D	C
	ATOM	4554	CB	GLU	D	681	19.485	76.642	72.270	1.00	9.73	D	C
	ATOM	4555	CG	GLU	D	681	19.238	75.304	72.963	1.00	13.16	D	C
15	ATOM	4556	CD	GLU	D	681	17.772	75.004	73.294	1.00	12.70	D	C
	ATOM	4557	OE1	GLU	D	681	16.843	75.673	72.786	1.00	12.67	D	O
	ATOM	4558	OE2	GLU	D	681	17.547	74.064	74.079	1.00	14.39	D	O
	ATOM	4559	C	GLU	D	681	21.395	75.776	70.858	1.00	11.78	D	C
20	ATOM	4560	O	GLU	D	681	21.992	74.767	71.218	1.00	12.74	D	O
	ATOM	4561	N	VAL	D	682	21.113	76.022	69.576	1.00	11.58	D	N
	ATOM	4562	CA	VAL	D	682	21.506	75.077	68.513	1.00	9.18	D	C
	ATOM	4563	CB	VAL	D	682	20.883	75.483	67.136	1.00	7.18	D	C
25	ATOM	4564	CG1	VAL	D	682	21.543	74.709	65.995	1.00	6.76	D	C
	ATOM	4565	CG2	VAL	D	682	19.372	75.223	67.163	1.00	3.38	D	C
	ATOM	4566	C	VAL	D	682	23.028	75.055	68.425	1.00	8.10	D	C
	ATOM	4567	O	VAL	D	682	23.632	73.988	68.331	1.00	12.28	D	O
30	ATOM	4568	N	ALA	D	683	23.646	76.235	68.479	1.00	6.69	D	N
	ATOM	4569	CA	ALA	D	683	25.101	76.334	68.441	1.00	6.77	D	C
	ATOM	4570	CB	ALA	D	683	25.543	77.792	68.560	1.00	4.45	D	C
	ATOM	4571	C	ALA	D	683	25.720	75.517	69.569	1.00	9.73	D	C
35	ATOM	4572	O	ALA	D	683	26.685	74.780	69.338	1.00	9.86	D	O
	ATOM	4573	N	ARG	D	684	25.175	75.649	70.789	1.00	11.88	D	N
	ATOM	4574	CA	ARG	D	684	25.703	74.915	71.945	1.00	11.62	D	C
	ATOM	4575	CB	ARG	D	684	24.975	75.337	73.234	1.00	13.08	D	C
40	ATOM	4576	CG	ARG	D	684	25.459	74.610	74.496	1.00	13.12	D	C
	ATOM	4577	CD	ARG	D	684	24.806	75.190	75.771	1.00	14.28	D	C
	ATOM	4578	NE	ARG	D	684	25.347	74.589	76.999	1.00	15.82	D	N
	ATOM	4579	CZ	ARG	D	684	24.875	73.485	77.577	1.00	12.38	D	C
45	ATOM	4580	NH1	ARG	D	684	23.844	72.842	77.050	1.00	11.23	D	N
	ATOM	4581	NH2	ARG	D	684	25.446	73.012	78.677	1.00	16.17	D	N
	ATOM	4582	C	ARG	D	684	25.563	73.407	71.715	1.00	10.57	D	C
	ATOM	4583	O	ARG	D	684	26.487	72.634	71.985	1.00	12.71	D	O
50	ATOM	4584	N	ASN	D	685	24.407	72.981	71.223	1.00	8.28	D	N
	ATOM	4585	CA	ASN	D	685	24.203	71.570	70.948	1.00	9.71	D	C
	ATOM	4586	CB	ASN	D	685	22.818	71.334	70.337	1.00	13.39	D	C
	ATOM	4587	CG	ASN	D	685	21.685	71.525	71.338	1.00	15.48	D	C
55	ATOM	4588	OD1	ASN	D	685	21.915	71.651	72.537	1.00	14.96	D	O
	ATOM	4589	ND2	ASN	D	685	20.449	71.541	70.838	1.00	12.76	D	N
	ATOM	4590	C	ASN	D	685	25.258	71.048	69.966	1.00	12.26	D	C
	ATOM	4591	O	ASN	D	685	25.714	69.910	70.078	1.00	13.07	D	O
60	ATOM	4592	N	SER	D	686	25.638	71.873	68.992	1.00	11.26	D	N
	ATOM	4593	CA	SER	D	686	26.620	71.452	67.997	1.00	11.96	D	C
	ATOM	4594	CB	SER	D	686	26.704	72.484	66.843	1.00	10.20	D	C
	ATOM	4595	OG	SER	D	686	27.446	73.650	67.174	1.00	7.13	D	O
65	ATOM	4596	C	SER	D	686	27.983	71.222	68.631	1.00	11.34	D	C
	ATOM	4597	O	SER	D	686	28.683	70.276	68.265	1.00	13.22	D	O
	ATOM	4598	N	VAL	D	687	28.367	72.074	69.584	1.00	11.94	D	N
	ATOM	4599	CA	VAL	D	687	29.649	71.891	70.270	1.00	11.31	D	C
70	ATOM	4600	CB	VAL	D	687	30.038	73.104	71.145	1.00	13.08	D	C
	ATOM	4601	CG1	VAL	D	687	31.466	72.913	71.693	1.00	7.20	D	C
	ATOM	4602	CG2	VAL	D	687	29.967	74.386	70.303	1.00	10.04	D	C
	ATOM	4603	C	VAL	D	687	29.603	70.656	71.150	1.00	10.56	D	C
75	ATOM	4604	O	VAL	D	687	30.573	69.917	71.228	1.00	14.06	D	O
	ATOM	4605	N	LEU	D	688	28.467	70.422	71.794	1.00	10.34	D	N
	ATOM	4606	CA	LEU	D	688	28.302	69.248	72.646	1.00	11.23	D	C
	ATOM	4607	CB	LEU	D	688	26.945	69.308	73.367	1.00	7.11	D	C
80	ATOM	4608	CG	LEU	D	688	26.792	70.283	74.530	1.00	10.83	D	C
	ATOM	4609	CD1	LEU	D	688	25.362	70.205	75.067	1.00	7.03	D	C
	ATOM	4610	CD2	LEU	D	688	27.805	69.934	75.620	1.00	5.35	D	C
	ATOM	4611	C	LEU	D	688	28.357	67.968	71.802	1.00	12.76	D	C
85	ATOM	4612	O	LEU	D	688	28.921	66.940	72.215	1.00	13.04	D	O

	ATOM	4613	N	GLN	D	689	27.751	68.031	70.619	1.00	13.51	D	N
	ATOM	4614	CA	GLN	D	689	27.697	66.882	69.721	1.00	11.94	D	C
	ATOM	4615	CB	GLN	D	689	26.644	67.134	68.635	1.00	10.97	D	C
5	ATOM	4616	CG	GLN	D	689	26.596	66.051	67.586	1.00	10.36	D	C
	ATOM	4617	CD	GLN	D	689	25.445	66.222	66.606	1.00	11.83	D	C
	ATOM	4618	OE1	GLN	D	689	25.124	65.306	65.852	1.00	15.35	D	O
	ATOM	4619	NE2	GLN	D	689	24.830	67.393	66.604	1.00	8.14	D	N
	ATOM	4620	C	GLN	D	689	29.025	66.499	69.060	1.00	9.30	D	C
10	ATOM	4621	O	GLN	D	689	29.344	65.318	68.937	1.00	11.08	D	O
	ATOM	4622	N	CYS	D	690	29.810	67.493	68.663	1.00	10.70	D	N
	ATOM	4623	CA	CYS	D	690	31.061	67.248	67.946	1.00	10.85	D	C
	ATOM	4624	CB	CYS	D	690	31.581	68.568	67.377	1.00	10.92	D	C
	ATOM	4625	SG	CYS	D	690	32.347	69.625	68.589	1.00	15.51	D	S
15	ATOM	4626	C	CYS	D	690	32.201	66.510	68.641	1.00	14.05	D	C
	ATOM	4627	O	CYS	D	690	32.152	66.237	69.834	1.00	16.04	D	O
	ATOM	4628	N	GLY	D	691	33.238	66.198	67.870	1.00	14.34	D	N
	ATOM	4629	CA	GLY	D	691	34.379	65.477	68.396	1.00	15.07	D	C
	ATOM	4630	C	GLY	D	691	35.556	66.339	68.805	1.00	16.75	D	C
20	ATOM	4631	O	GLY	D	691	36.678	65.852	68.881	1.00	21.23	D	O
	ATOM	4632	N	ILE	D	692	35.312	67.615	69.071	1.00	14.13	D	N
	ATOM	4633	CA	ILE	D	692	36.372	68.511	69.511	1.00	13.46	D	C
	ATOM	4634	CB	ILE	D	692	35.828	69.937	69.568	1.00	13.27	D	C
	ATOM	4635	CG2	ILE	D	692	36.742	70.852	70.372	1.00	12.87	D	C
	ATOM	4636	CG1	ILE	D	692	35.703	70.452	68.139	1.00	16.35	D	C
25	ATOM	4637	CD1	ILE	D	692	35.159	71.848	68.032	1.00	17.73	D	C
	ATOM	4638	C	ILE	D	692	36.920	68.058	70.889	1.00	15.47	D	C
	ATOM	4639	O	ILE	D	692	36.225	67.382	71.658	1.00	14.67	D	O
	ATOM	4640	N	SER	D	693	38.165	68.417	71.201	1.00	15.20	D	N
30	ATOM	4641	CA	SER	D	693	38.770	67.988	72.468	1.00	17.77	D	C
	ATOM	4642	CB	SER	D	693	40.251	68.360	72.510	1.00	15.07	D	C
	ATOM	4643	OG	SER	D	693	40.399	69.742	72.747	1.00	16.84	D	O
	ATOM	4644	C	SER	D	693	38.084	68.553	73.699	1.00	17.99	D	C
	ATOM	4645	O	SER	D	693	37.493	69.635	73.656	1.00	16.51	D	O
35	ATOM	4646	N	HIS	D	694	38.172	67.806	74.800	1.00	22.43	D	N
	ATOM	4647	CA	HIS	D	694	37.574	68.222	76.069	1.00	23.25	D	C
	ATOM	4648	CB	HIS	D	694	37.850	67.191	77.172	1.00	25.13	D	C
	ATOM	4649	CG	HIS	D	694	37.329	67.599	78.516	1.00	26.41	D	C
	ATOM	4650	CD2	HIS	D	694	36.062	67.716	78.984	1.00	28.11	D	C
40	ATOM	4651	ND1	HIS	D	694	38.153	68.013	79.539	1.00	28.55	D	N
	ATOM	4652	CE1	HIS	D	694	37.418	68.370	80.579	1.00	26.68	D	C
	ATOM	4653	NE2	HIS	D	694	36.146	68.199	80.268	1.00	25.47	D	N
	ATOM	4654	C	HIS	D	694	38.096	69.581	76.522	1.00	22.44	D	C
	ATOM	4655	O	HIS	D	694	37.335	70.419	76.998	1.00	23.33	D	O
45	ATOM	4656	N	GLU	D	695	39.394	69.800	76.363	1.00	23.23	D	N
	ATOM	4657	CA	GLU	D	695	40.004	71.060	76.766	1.00	26.43	D	C
	ATOM	4658	CB	GLU	D	695	41.526	71.012	76.540	1.00	33.47	D	C
	ATOM	4659	CG	GLU	D	695	42.273	72.291	76.979	1.00	47.37	D	C
	ATOM	4660	CD	GLU	D	695	43.239	72.885	75.910	1.00	54.84	D	C
50	ATOM	4661	OE1	GLU	D	695	44.433	72.489	75.899	1.00	57.18	D	O
	ATOM	4662	OE2	GLU	D	695	42.814	73.757	75.096	1.00	56.02	D	O
	ATOM	4663	C	GLU	D	695	39.412	72.246	76.014	1.00	24.52	D	C
	ATOM	4664	O	GLU	D	695	39.159	73.300	76.599	1.00	23.71	D	O
	ATOM	4665	N	GLU	D	696	39.183	72.083	74.716	1.00	22.69	D	N
55	ATOM	4666	CA	GLU	D	696	38.635	73.183	73.938	1.00	20.98	D	C
	ATOM	4667	CB	GLU	D	696	38.854	72.940	72.456	1.00	22.69	D	C
	ATOM	4668	CG	GLU	D	696	40.278	73.208	72.035	1.00	27.51	D	C
	ATOM	4669	CD	GLU	D	696	40.610	72.546	70.718	1.00	36.33	D	C
	ATOM	4670	OE1	GLU	D	696	40.524	73.256	69.679	1.00	37.26	D	O
60	ATOM	4671	OE2	GLU	D	696	40.944	71.324	70.720	1.00	35.11	D	O
	ATOM	4672	C	GLU	D	696	37.165	73.401	74.209	1.00	18.80	D	C
	ATOM	4673	O	GLU	D	696	36.698	74.540	74.242	1.00	16.92	D	O
	ATOM	4674	N	LYS	D	697	36.431	72.313	74.401	1.00	17.55	D	N
	ATOM	4675	CA	LYS	D	697	35.012	72.436	74.690	1.00	19.61	D	C
65	ATOM	4676	CB	LYS	D	697	34.363	71.065	74.753	1.00	17.52	D	C
	ATOM	4677	CG	LYS	D	697	34.103	70.472	73.399	1.00	17.85	D	C
	ATOM	4678	CD	LYS	D	697	33.199	69.273	73.527	1.00	17.99	D	C
	ATOM	4679	CE	LYS	D	697	33.117	68.508	72.225	1.00	15.97	D	C
	ATOM	4680	NZ	LYS	D	697	32.166	67.381	72.361	1.00	17.66	D	N

	ATOM	4681	C	LYS	D	697	34.786	73.174	76.013	1.00	21.75	D	C
	ATOM	4682	O	LYS	D	697	33.898	74.032	76.104	1.00	22.43	D	O
	ATOM	4683	N	ALA	D	698	35.583	72.844	77.031	1.00	21.17	D	N
5	ATOM	4684	CA	ALA	D	698	35.451	73.495	78.328	1.00	21.88	D	C
	ATOM	4685	CB	ALA	D	698	36.482	72.933	79.319	1.00	20.65	D	C
	ATOM	4686	C	ALA	D	698	35.682	74.978	78.111	1.00	21.41	D	C
	ATOM	4687	O	ALA	D	698	35.067	75.823	78.756	1.00	22.92	D	O
	ATOM	4688	N	LYS	D	699	36.570	75.287	77.177	1.00	22.78	D	N
10	ATOM	4689	CA	LYS	D	699	36.907	76.667	76.844	1.00	22.90	D	C
	ATOM	4690	CB	LYS	D	699	38.158	76.687	75.965	1.00	25.25	D	C
	ATOM	4691	CG	LYS	D	699	38.543	78.061	75.464	1.00	29.23	D	C
	ATOM	4692	CD	LYS	D	699	39.851	78.007	74.670	1.00	34.34	D	C
	ATOM	4693	CE	LYS	D	699	39.754	78.791	73.360	1.00	34.42	D	C
15	ATOM	4694	NZ	LYS	D	699	39.643	80.257	73.597	1.00	34.98	D	N
	ATOM	4695	C	LYS	D	699	35.781	77.428	76.137	1.00	22.15	D	C
	ATOM	4696	O	LYS	D	699	35.549	78.597	76.420	1.00	22.23	D	O
	ATOM	4697	N	PHE	D	700	35.089	76.767	75.212	1.00	21.09	D	N
	ATOM	4698	CA	PHE	D	700	33.992	77.392	74.462	1.00	18.29	D	C
20	ATOM	4699	CB	PHE	D	700	33.719	76.630	73.149	1.00	15.77	D	C
	ATOM	4700	CG	PHE	D	700	34.925	76.464	72.267	1.00	18.18	D	C
	ATOM	4701	CD1	PHE	D	700	35.917	77.441	72.226	1.00	15.06	D	C
	ATOM	4702	CD2	PHE	D	700	35.058	75.331	71.448	1.00	16.02	D	C
	ATOM	4703	CE1	PHE	D	700	37.029	77.301	71.379	1.00	13.83	D	C
25	ATOM	4704	CE2	PHE	D	700	36.164	75.179	70.599	1.00	15.32	D	C
	ATOM	4705	CZ	PHE	D	700	37.153	76.175	70.567	1.00	13.17	D	C
	ATOM	4706	C	PHE	D	700	32.681	77.425	75.232	1.00	16.84	D	C
	ATOM	4707	O	PHE	D	700	31.916	78.371	75.101	1.00	16.20	D	O
	ATOM	4708	N	LEU	D	701	32.428	76.376	76.014	1.00	16.64	D	N
30	ATOM	4709	CA	LEU	D	701	31.176	76.222	76.753	1.00	17.23	D	C
	ATOM	4710	CB	LEU	D	701	30.622	74.824	76.481	1.00	13.41	D	C
	ATOM	4711	CG	LEU	D	701	30.411	74.401	75.028	1.00	13.42	D	C
	ATOM	4712	CD1	LEU	D	701	29.878	72.971	75.017	1.00	13.65	D	C
	ATOM	4713	CD2	LEU	D	701	29.439	75.343	74.330	1.00	8.23	D	C
35	ATOM	4714	C	LEU	D	701	31.190	76.437	78.273	1.00	20.02	D	C
	ATOM	4715	O	LEU	D	701	30.129	76.649	78.881	1.00	19.05	D	O
	ATOM	4716	N	GLY	D	702	32.374	76.370	78.874	1.00	20.70	D	N
	ATOM	4717	CA	GLY	D	702	32.500	76.510	80.314	1.00	22.60	D	C
	ATOM	4718	C	GLY	D	702	33.007	75.190	80.883	1.00	25.69	D	C
40	ATOM	4719	O	GLY	D	702	32.712	74.109	80.341	1.00	25.51	D	O
	ATOM	4720	N	ASN	D	703	33.752	75.260	81.982	1.00	24.85	D	N
	ATOM	4721	CA	ASN	D	703	34.328	74.061	82.587	1.00	25.88	D	C
	ATOM	4722	CB	ASN	D	703	35.251	74.470	83.735	1.00	29.81	D	C
	ATOM	4723	CG	ASN	D	703	36.468	75.234	83.251	1.00	34.59	D	C
45	ATOM	4724	OD1	ASN	D	703	37.240	74.747	82.416	1.00	36.97	D	O
	ATOM	4725	ND2	ASN	D	703	36.646	76.443	83.771	1.00	36.38	D	N
	ATOM	4726	C	ASN	D	703	33.388	72.956	83.066	1.00	24.40	D	C
	ATOM	4727	O	ASN	D	703	33.803	71.805	83.200	1.00	25.74	D	O
	ATOM	4728	N	ASN	D	704	32.128	73.283	83.315	1.00	21.40	D	N
50	ATOM	4729	CA	ASN	D	704	31.191	72.276	83.792	1.00	22.88	D	C
	ATOM	4730	CB	ASN	D	704	30.407	72.852	84.966	1.00	28.48	D	C
	ATOM	4731	CG	ASN	D	704	30.599	72.052	86.229	1.00	37.31	D	C
	ATOM	4732	OD1	ASN	D	704	29.789	71.174	86.557	1.00	39.95	D	O
	ATOM	4733	ND2	ASN	D	704	31.684	72.341	86.950	1.00	40.62	D	N
55	ATOM	4734	C	ASN	D	704	30.216	71.780	82.716	1.00	21.25	D	C
	ATOM	4735	O	ASN	D	704	29.192	71.163	83.023	1.00	16.05	D	O
	ATOM	4736	N	TYR	D	705	30.551	72.044	81.458	1.00	19.45	D	N
	ATOM	4737	CA	TYR	D	705	29.700	71.677	80.335	1.00	19.55	D	C
	ATOM	4738	CB	TYR	D	705	30.389	72.072	79.023	1.00	18.23	D	C
60	ATOM	4739	CG	TYR	D	705	31.396	71.071	78.524	1.00	17.24	D	C
	ATOM	4740	CD1	TYR	D	705	32.737	71.164	78.882	1.00	16.50	D	C
	ATOM	4741	CE1	TYR	D	705	33.659	70.219	78.444	1.00	16.64	D	C
	ATOM	4742	CD2	TYR	D	705	31.000	70.009	77.709	1.00	16.59	D	C
	ATOM	4743	CE2	TYR	D	705	31.910	69.065	77.269	1.00	15.52	D	C
65	ATOM	4744	CZ	TYR	D	705	33.234	69.173	77.642	1.00	16.31	D	C
	ATOM	4745	OH	TYR	D	705	34.126	68.208	77.247	1.00	19.45	D	O
	ATOM	4746	C	TYR	D	705	29.230	70.220	80.267	1.00	20.12	D	C
	ATOM	4747	O	TYR	D	705	28.215	69.932	79.633	1.00	20.93	D	O
	ATOM	4748	N	LEU	D	706	29.944	69.303	80.913	1.00	19.68	D	N

	ATOM	4749	CA	LEU D 706	29.547	67.895	80.888	1.00	20.58	D	C
	ATOM	4750	CB	LEU D 706	30.747	67.003	81.214	1.00	21.67	D	C
	ATOM	4751	CG	LEU D 706	31.722	66.738	80.065	1.00	23.08	D	C
5	ATOM	4752	CD1	LEU D 706	33.024	66.161	80.602	1.00	22.30	D	C
	ATOM	4753	CD2	LEU D 706	31.073	65.775	79.082	1.00	23.26	D	C
	ATOM	4754	C	LEU D 706	28.389	67.584	81.850	1.00	22.26	D	C
	ATOM	4755	O	LEU D 706	27.798	66.501	81.801	1.00	20.52	D	O
	ATOM	4756	N	GLU D 707	28.074	68.538	82.722	1.00	23.68	D	N
10	ATOM	4757	CA	GLU D 707	26.986	68.379	83.681	1.00	23.56	D	C
	ATOM	4758	CB	GLU D 707	27.222	69.293	84.891	1.00	27.14	D	C
	ATOM	4759	CG	GLU D 707	28.361	68.840	85.791	1.00	33.16	D	C
	ATOM	4760	CD	GLU D 707	28.393	67.329	85.957	1.00	39.92	D	C
	ATOM	4761	OE1	GLU D 707	29.460	66.712	85.705	1.00	40.62	D	O
15	ATOM	4762	OE2	GLU D 707	27.343	66.756	86.330	1.00	41.00	D	O
	ATOM	4763	C	GLU D 707	25.687	68.764	82.985	1.00	22.39	D	C
	ATOM	4764	O	GLU D 707	25.625	69.764	82.276	1.00	21.91	D	O
	ATOM	4765	N	GLU D 708	24.644	67.980	83.195	1.00	20.20	D	N
	ATOM	4766	CA	GLU D 708	23.366	68.264	82.563	1.00	22.80	D	C
20	ATOM	4767	CB	GLU D 708	22.600	66.945	82.360	1.00	24.19	D	C
	ATOM	4768	CG	GLU D 708	23.514	65.729	82.496	1.00	29.76	D	C
	ATOM	4769	CD	GLU D 708	23.148	64.567	81.594	1.00	29.61	D	C
	ATOM	4770	OE1	GLU D 708	21.951	64.273	81.467	1.00	30.92	D	O
	ATOM	4771	OE2	GLU D 708	24.063	63.927	81.018	1.00	34.57	D	O
25	ATOM	4772	C	GLU D 708	22.520	69.303	83.323	1.00	21.92	D	C
	ATOM	4773	O	GLU D 708	22.624	69.459	84.543	1.00	19.70	D	O
	ATOM	4774	N	GLY D 709	21.697	70.030	82.573	1.00	20.62	D	N
	ATOM	4775	CA	GLY D 709	20.842	71.036	83.173	1.00	16.88	D	C
	ATOM	4776	C	GLY D 709	21.558	72.366	83.275	1.00	16.65	D	C
30	ATOM	4777	O	GLY D 709	22.676	72.504	82.771	1.00	16.52	D	O
	ATOM	4778	N	PRO D 710	20.938	73.361	83.926	1.00	14.11	D	N
	ATOM	4779	CD	PRO D 710	19.594	73.231	84.518	1.00	13.65	D	C
	ATOM	4780	CA	PRO D 710	21.483	74.707	84.113	1.00	14.32	D	C
	ATOM	4781	CB	PRO D 710	20.433	75.399	84.978	1.00	12.65	D	C
35	ATOM	4782	CG	PRO D 710	19.168	74.647	84.696	1.00	13.73	D	C
	ATOM	4783	C	PRO D 710	22.866	74.754	84.735	1.00	16.32	D	C
	ATOM	4784	O	PRO D 710	23.647	75.675	84.466	1.00	17.73	D	O
	ATOM	4785	N	ILE D 711	23.177	73.766	85.565	1.00	15.72	D	N
	ATOM	4786	CA	ILE D 711	24.475	73.730	86.214	1.00	18.41	D	C
40	ATOM	4787	CB	ILE D 711	24.529	72.591	87.296	1.00	19.06	D	C
	ATOM	4788	CG2	ILE D 711	24.895	71.254	86.669	1.00	18.62	D	C
	ATOM	4789	CG1	ILE D 711	25.565	72.937	88.370	1.00	23.00	D	C
	ATOM	4790	CD1	ILE D 711	25.415	74.348	88.979	1.00	22.00	D	C
	ATOM	4791	C	ILE D 711	25.604	73.566	85.185	1.00	17.91	D	C
45	ATOM	4792	O	ILE D 711	26.732	74.015	85.406	1.00	20.11	D	O
	ATOM	4793	N	GLY D 712	25.300	72.937	84.057	1.00	16.50	D	N
	ATOM	4794	CA	GLY D 712	26.310	72.746	83.031	1.00	17.32	D	C
	ATOM	4795	C	GLY D 712	26.462	73.917	82.070	1.00	15.71	D	C
	ATOM	4796	O	GLY D 712	27.385	73.949	81.273	1.00	18.88	D	O
50	ATOM	4797	N	ASN D 713	25.574	74.896	82.148	1.00	13.96	D	N
	ATOM	4798	CA	ASN D 713	25.645	76.032	81.241	1.00	13.48	D	C
	ATOM	4799	CB	ASN D 713	24.237	76.388	80.733	1.00	11.33	D	C
	ATOM	4800	CG	ASN D 713	24.250	77.532	79.734	1.00	12.66	D	C
	ATOM	4801	OD1	ASN D 713	23.482	78.500	79.854	1.00	15.14	D	O
55	ATOM	4802	ND2	ASN D 713	25.121	77.432	78.743	1.00	7.78	D	N
	ATOM	4803	C	ASN D 713	26.275	77.279	81.830	1.00	14.21	D	C
	ATOM	4804	O	ASN D 713	25.900	77.714	82.917	1.00	17.28	D	O
	ATOM	4805	N	ASP D 714	27.223	77.851	81.099	1.00	13.37	D	N
	ATOM	4806	CA	ASP D 714	27.889	79.089	81.491	1.00	14.31	D	C
60	ATOM	4807	CB	ASP D 714	29.415	78.893	81.487	1.00	17.58	D	C
	ATOM	4808	CG	ASP D 714	30.182	80.141	81.942	1.00	20.93	D	C
	ATOM	4809	OD1	ASP D 714	29.560	81.232	82.049	1.00	21.58	D	O
	ATOM	4810	OD2	ASP D 714	31.413	80.026	82.187	1.00	18.87	D	O
	ATOM	4811	C	ASP D 714	27.481	80.113	80.419	1.00	15.31	D	C
65	ATOM	4812	O	ASP D 714	28.106	80.183	79.359	1.00	13.63	D	O
	ATOM	4813	N	ILE D 715	26.441	80.899	80.700	1.00	12.36	D	N
	ATOM	4814	CA	ILE D 715	25.933	81.877	79.750	1.00	14.43	D	C
	ATOM	4815	CB	ILE D 715	24.715	82.653	80.337	1.00	15.74	D	C
	ATOM	4816	CG2	ILE D 715	25.172	83.606	81.439	1.00	17.14	D	C

	ATOM	4817	CG1	ILE	D	715	24.018	83.461	79.237	1.00	12.94	D	C
	ATOM	4818	CD1	ILE	D	715	22.795	84.187	79.711	1.00	9.84	D	C
	ATOM	4819	C	ILE	D	715	26.978	82.875	79.285	1.00	15.45	D	C
5	ATOM	4820	O	ILE	D	715	26.876	83.430	78.194	1.00	16.52	D	O
	ATOM	4821	N	ARG	D	716	27.981	83.121	80.109	1.00	16.17	D	N
	ATOM	4822	CA	ARG	D	716	29.001	84.069	79.724	1.00	18.20	D	C
	ATOM	4823	CB	ARG	D	716	29.976	84.308	80.868	1.00	20.48	D	C
	ATOM	4824	CG	ARG	D	716	29.471	85.280	81.927	1.00	29.35	D	C
10	ATOM	4825	CD	ARG	D	716	30.293	85.164	83.218	1.00	36.12	D	C
	ATOM	4826	NE	ARG	D	716	30.613	83.770	83.527	1.00	43.62	D	N
	ATOM	4827	CZ	ARG	D	716	31.591	83.373	84.337	1.00	46.36	D	C
	ATOM	4828	NH1	ARG	D	716	32.371	84.262	84.944	1.00	45.23	D	N
	ATOM	4829	NH2	ARG	D	716	31.788	82.076	84.540	1.00	48.63	D	N
15	ATOM	4830	C	ARG	D	716	29.752	83.538	78.519	1.00	19.76	D	C
	ATOM	4831	O	ARG	D	716	30.395	84.314	77.804	1.00	19.54	D	O
	ATOM	4832	N	LYS	D	717	29.664	82.225	78.284	1.00	18.00	D	N
	ATOM	4833	CA	LYS	D	717	30.354	81.607	77.155	1.00	17.27	D	C
	ATOM	4834	CB	LYS	D	717	31.165	80.400	77.645	1.00	18.93	D	C
20	ATOM	4835	CG	LYS	D	717	32.457	80.802	78.357	1.00	19.42	D	C
	ATOM	4836	CD	LYS	D	717	33.206	79.618	78.896	1.00	24.15	D	C
	ATOM	4837	CE	LYS	D	717	34.647	80.009	79.234	1.00	29.33	D	C
	ATOM	4838	NZ	LYS	D	717	35.355	78.948	80.037	1.00	31.96	D	N
	ATOM	4839	C	LYS	D	717	29.443	81.174	76.001	1.00	17.07	D	C
25	ATOM	4840	O	LYS	D	717	29.830	81.231	74.832	1.00	16.90	D	O
	ATOM	4841	N	THR	D	718	28.228	80.766	76.336	1.00	15.49	D	N
	ATOM	4842	CA	THR	D	718	27.273	80.255	75.359	1.00	13.88	D	C
	ATOM	4843	CB	THR	D	718	26.603	78.994	75.913	1.00	12.64	D	C
	ATOM	4844	OG1	THR	D	718	25.702	79.369	76.966	1.00	15.50	D	O
30	ATOM	4845	CG2	THR	D	718	27.649	78.028	76.466	1.00	12.61	D	C
	ATOM	4846	C	THR	D	718	26.154	81.203	74.920	1.00	15.83	D	C
	ATOM	4847	O	THR	D	718	25.565	81.011	73.858	1.00	14.58	D	O
	ATOM	4848	N	ASN	D	719	25.850	82.210	75.738	1.00	14.39	D	N
	ATOM	4849	CA	ASN	D	719	24.760	83.141	75.449	1.00	12.27	D	C
35	ATOM	4850	CB	ASN	D	719	24.994	83.911	74.149	1.00	12.04	D	C
	ATOM	4851	CG	ASN	D	719	24.267	85.236	74.136	1.00	13.34	D	C
	ATOM	4852	OD1	ASN	D	719	24.390	86.021	75.070	1.00	17.85	D	O
	ATOM	4853	ND2	ASN	D	719	23.497	85.496	73.084	1.00	13.96	D	N
	ATOM	4854	C	ASN	D	719	23.401	82.436	75.373	1.00	14.00	D	C
40	ATOM	4855	O	ASN	D	719	22.475	82.906	74.702	1.00	14.40	D	O
	ATOM	4856	N	VAL	D	720	23.289	81.297	76.045	1.00	14.52	D	N
	ATOM	4857	CA	VAL	D	720	22.030	80.558	76.109	1.00	12.81	D	C
	ATOM	4858	CB	VAL	D	720	22.260	79.001	76.070	1.00	14.77	D	C
	ATOM	4859	CG1	VAL	D	720	20.938	78.276	76.355	1.00	12.54	D	C
45	ATOM	4860	CG2	VAL	D	720	22.825	78.559	74.697	1.00	7.63	D	C
	ATOM	4861	C	VAL	D	720	21.415	80.931	77.469	1.00	13.27	D	C
	ATOM	4862	O	VAL	D	720	22.085	80.852	78.490	1.00	15.06	D	O
	ATOM	4863	N	ALA	D	721	20.151	81.345	77.477	1.00	12.65	D	N
	ATOM	4864	CA	ALA	D	721	19.463	81.729	78.714	1.00	12.32	D	C
50	ATOM	4865	CB	ALA	D	721	18.062	82.246	78.388	1.00	11.26	D	C
	ATOM	4866	C	ALA	D	721	19.363	80.585	79.712	1.00	10.58	D	C
	ATOM	4867	O	ALA	D	721	19.140	79.443	79.333	1.00	13.19	D	O
	ATOM	4868	N	GLN	D	722	19.518	80.887	80.996	1.00	11.63	D	N
	ATOM	4869	CA	GLN	D	722	19.413	79.842	82.010	1.00	12.28	D	C
55	ATOM	4870	CB	GLN	D	722	19.938	80.355	83.366	1.00	12.42	D	C
	ATOM	4871	CG	GLN	D	722	21.453	80.311	83.491	1.00	10.46	D	C
	ATOM	4872	CD	GLN	D	722	22.006	78.892	83.401	1.00	17.17	D	C
	ATOM	4873	OE1	GLN	D	722	22.574	78.361	84.360	1.00	20.73	D	O
	ATOM	4874	NE2	GLN	D	722	21.844	78.271	82.246	1.00	17.00	D	N
60	ATOM	4875	C	GLN	D	722	17.937	79.411	82.095	1.00	11.10	D	C
	ATOM	4876	O	GLN	D	722	17.624	78.273	82.476	1.00	9.92	D	O
	ATOM	4877	N	ILE	D	723	17.033	80.319	81.726	1.00	10.86	D	N
	ATOM	4878	CA	ILE	D	723	15.600	80.008	81.713	1.00	11.43	D	C
	ATOM	4879	CB	ILE	D	723	14.773	81.239	81.259	1.00	11.73	D	C
65	ATOM	4880	CG2	ILE	D	723	13.365	80.817	80.853	1.00	12.31	D	C
	ATOM	4881	CG1	ILE	D	723	14.671	82.252	82.396	1.00	11.35	D	C
	ATOM	4882	CD1	ILE	D	723	14.021	83.576	81.981	1.00	6.70	D	C
	ATOM	4883	C	ILE	D	723	15.373	78.858	80.711	1.00	13.18	D	C
	ATOM	4884	O	ILE	D	723	14.582	77.929	80.952	1.00	11.89	D	O

	ATOM	4885	N	ARG	D	724	16.075	78.931	79.579	1.00	11.77	D	N
	ATOM	4886	CA	ARG	D	724	15.959	77.907	78.539	1.00	9.64	D	C
	ATOM	4887	CB	ARG	D	724	16.738	78.355	77.277	1.00	11.03	D	C
5	ATOM	4888	CG	ARG	D	724	16.614	77.437	76.041	1.00	9.68	D	C
	ATOM	4889	CD	ARG	D	724	15.152	77.088	75.716	1.00	10.04	D	C
	ATOM	4890	NE	ARG	D	724	14.411	78.227	75.163	1.00	13.29	D	N
	ATOM	4891	CZ	ARG	D	724	14.420	78.571	73.871	1.00	13.91	D	C
	ATOM	4892	NH1	ARG	D	724	15.130	77.865	72.989	1.00	9.00	D	N
10	ATOM	4893	NH2	ARG	D	724	13.746	79.635	73.461	1.00	9.49	D	N
	ATOM	4894	C	ARG	D	724	16.520	76.599	79.095	1.00	8.09	D	C
	ATOM	4895	O	ARG	D	724	15.902	75.550	78.961	1.00	8.27	D	O
	ATOM	4896	N	MET	D	725	17.676	76.663	79.747	1.00	7.84	D	N
	ATOM	4897	CA	MET	D	725	18.286	75.457	80.294	1.00	9.53	D	C
15	ATOM	4898	CB	MET	D	725	19.624	75.783	80.963	1.00	5.79	D	C
	ATOM	4899	CG	MET	D	725	20.708	76.268	80.038	1.00	6.91	D	C
	ATOM	4900	SD	MET	D	725	21.222	75.057	78.809	1.00	14.77	D	S
	ATOM	4901	CE	MET	D	725	21.653	73.604	79.808	1.00	11.94	D	C
	ATOM	4902	C	MET	D	725	17.371	74.777	81.306	1.00	11.85	D	C
20	ATOM	4903	O	MET	D	725	17.173	73.552	81.266	1.00	14.63	D	O
	ATOM	4904	N	ALA	D	726	16.814	75.575	82.213	1.00	13.50	D	N
	ATOM	4905	CA	ALA	D	726	15.906	75.066	83.247	1.00	13.75	D	C
	ATOM	4906	CB	ALA	D	726	15.509	76.204	84.220	1.00	8.27	D	C
	ATOM	4907	C	ALA	D	726	14.661	74.459	82.630	1.00	12.08	D	C
25	ATOM	4908	O	ALA	D	726	14.194	73.397	83.062	1.00	12.87	D	O
	ATOM	4909	N	TYR	D	727	14.106	75.144	81.633	1.00	11.15	D	N
	ATOM	4910	CA	TYR	D	727	12.911	74.632	80.978	1.00	10.89	D	C
	ATOM	4911	CB	TYR	D	727	12.418	75.590	79.871	1.00	10.05	D	C
	ATOM	4912	CG	TYR	D	727	11.302	74.970	79.039	1.00	10.67	D	C
	ATOM	4913	CD1	TYR	D	727	11.584	74.277	77.861	1.00	11.76	D	C
30	ATOM	4914	CE1	TYR	D	727	10.562	73.644	77.128	1.00	12.56	D	C
	ATOM	4915	CD2	TYR	D	727	9.973	75.021	79.462	1.00	11.29	D	C
	ATOM	4916	CE2	TYR	D	727	8.947	74.394	78.739	1.00	11.79	D	C
	ATOM	4917	CZ	TYR	D	727	9.253	73.706	77.575	1.00	11.83	D	C
35	ATOM	4918	OH	TYR	D	727	8.250	73.069	76.876	1.00	12.50	D	O
	ATOM	4919	C	TYR	D	727	13.155	73.248	80.374	1.00	10.93	D	C
	ATOM	4920	O	TYR	D	727	12.367	72.332	80.582	1.00	8.58	D	O
	ATOM	4921	N	ARG	D	728	14.254	73.091	79.637	1.00	11.97	D	N
	ATOM	4922	CA	ARG	D	728	14.541	71.808	78.994	1.00	9.64	D	C
40	ATOM	4923	CB	ARG	D	728	15.778	71.910	78.096	1.00	8.75	D	C
	ATOM	4924	CG	ARG	D	728	15.657	72.919	76.980	1.00	10.91	D	C
	ATOM	4925	CD	ARG	D	728	14.665	72.472	75.899	1.00	10.99	D	C
	ATOM	4926	NE	ARG	D	728	14.813	73.273	74.674	1.00	12.23	D	N
	ATOM	4927	CZ	ARG	D	728	13.943	73.276	73.675	1.00	11.84	D	C
	ATOM	4928	NH1	ARG	D	728	12.856	72.521	73.747	1.00	8.94	D	N
45	ATOM	4929	NH2	ARG	D	728	14.159	74.036	72.605	1.00	11.81	D	N
	ATOM	4930	C	ARG	D	728	14.775	70.709	80.001	1.00	11.09	D	C
	ATOM	4931	O	ARG	D	728	14.260	69.600	79.862	1.00	10.79	D	O
	ATOM	4932	N	TYR	D	729	15.579	71.015	81.013	1.00	12.28	D	N
50	ATOM	4933	CA	TYR	D	729	15.907	70.030	82.036	1.00	11.24	D	C
	ATOM	4934	CB	TYR	D	729	16.897	70.644	83.020	1.00	12.02	D	C
	ATOM	4935	CG	TYR	D	729	17.494	69.651	83.980	1.00	16.39	D	C
	ATOM	4936	CD1	TYR	D	729	18.141	68.504	83.525	1.00	11.35	D	C
	ATOM	4937	CE1	TYR	D	729	18.699	67.603	84.422	1.00	17.06	D	C
55	ATOM	4938	CD2	TYR	D	729	17.416	69.872	85.356	1.00	18.42	D	C
	ATOM	4939	CE2	TYR	D	729	17.965	68.983	86.261	1.00	18.65	D	C
	ATOM	4940	CZ	TYR	D	729	18.604	67.853	85.797	1.00	20.33	D	C
	ATOM	4941	OH	TYR	D	729	19.135	66.989	86.733	1.00	22.21	D	O
	ATOM	4942	C	TYR	D	729	14.668	69.532	82.755	1.00	8.41	D	C
60	ATOM	4943	O	TYR	D	729	14.439	68.331	82.895	1.00	10.49	D	O
	ATOM	4944	N	GLU	D	730	13.843	70.462	83.192	1.00	10.24	D	N
	ATOM	4945	CA	GLU	D	730	12.627	70.092	83.888	1.00	12.07	D	C
	ATOM	4946	CB	GLU	D	730	11.919	71.355	84.395	1.00	10.30	D	C
	ATOM	4947	CG	GLU	D	730	12.780	72.206	85.311	1.00	13.76	D	C
65	ATOM	4948	CD	GLU	D	730	12.147	73.553	85.644	1.00	17.24	D	C
	ATOM	4949	OE1	GLU	D	730	12.811	74.384	86.303	1.00	17.97	D	O
	ATOM	4950	OE2	GLU	D	730	10.987	73.791	85.253	1.00	18.56	D	O
	ATOM	4951	C	GLU	D	730	11.669	69.270	83.015	1.00	13.33	D	C
	ATOM	4952	O	GLU	D	730	11.122	68.259	83.476	1.00	15.28	D	O

	ATOM	4953	N	THR	D	731	11.460	69.669	81.757	1.00	13.26	D	N
	ATOM	4954	CA	THR	D	731	10.515	68.907	80.958	1.00	12.96	D	C
	ATOM	4955	CB	THR	D	731	9.947	69.741	79.743	1.00	15.90	D	C
5	ATOM	4956	OG1	THR	D	731	10.435	69.226	78.508	1.00	20.79	D	O
	ATOM	4957	CG2	THR	D	731	10.282	71.206	79.876	1.00	5.13	D	C
	ATOM	4958	C	THR	D	731	11.076	67.543	80.574	1.00	11.40	D	C
	ATOM	4959	O	THR	D	731	10.320	66.587	80.444	1.00	11.64	D	O
	ATOM	4960	N	TRP	D	732	12.400	67.432	80.460	1.00	10.29	D	N
10	ATOM	4961	CA	TRP	D	732	13.042	66.148	80.155	1.00	9.33	D	C
	ATOM	4962	CB	TRP	D	732	14.516	66.380	79.825	1.00	8.28	D	C
	ATOM	4963	CG	TRP	D	732	15.322	65.158	79.479	1.00	6.38	D	C
	ATOM	4964	CD2	TRP	D	732	16.739	65.001	79.641	1.00	8.93	D	C
	ATOM	4965	CE2	TRP	D	732	17.086	63.741	79.104	1.00	8.03	D	C
15	ATOM	4966	CE3	TRP	D	732	17.751	65.806	80.185	1.00	9.47	D	C
	ATOM	4967	CD1	TRP	D	732	14.878	64.017	78.878	1.00	7.01	D	C
	ATOM	4968	NE1	TRP	D	732	15.933	63.159	78.645	1.00	7.58	D	N
	ATOM	4969	CZ2	TRP	D	732	18.406	63.266	79.092	1.00	10.58	D	C
	ATOM	4970	CZ3	TRP	D	732	19.065	65.333	80.170	1.00	11.29	D	C
20	ATOM	4971	CH2	TRP	D	732	19.377	64.074	79.625	1.00	9.82	D	C
	ATOM	4972	C	TRP	D	732	12.907	65.204	81.371	1.00	10.97	D	C
	ATOM	4973	O	TRP	D	732	12.539	64.037	81.234	1.00	10.26	D	O
	ATOM	4974	N	CYS	D	733	13.189	65.718	82.565	1.00	12.18	D	N
	ATOM	4975	CA	CYS	D	733	13.064	64.909	83.792	1.00	12.80	D	C
25	ATOM	4976	CB	CYS	D	733	13.526	65.715	85.011	1.00	10.30	D	C
	ATOM	4977	SG	CYS	D	733	15.326	65.920	85.125	1.00	18.32	D	S
	ATOM	4978	C	CYS	D	733	11.613	64.467	83.991	1.00	11.81	D	C
	ATOM	4979	O	CYS	D	733	11.335	63.327	84.368	1.00	12.32	D	O
	ATOM	4980	N	TYR	D	734	10.682	65.371	83.723	1.00	10.36	D	N
30	ATOM	4981	CA	TYR	D	734	9.285	65.034	83.871	1.00	11.32	D	C
	ATOM	4982	CB	TYR	D	734	8.429	66.227	83.461	1.00	12.26	D	C
	ATOM	4983	CG	TYR	D	734	6.983	66.067	83.834	1.00	17.25	D	C
	ATOM	4984	CD1	TYR	D	734	6.507	66.558	85.036	1.00	18.46	D	C
	ATOM	4985	CE1	TYR	D	734	5.178	66.416	85.396	1.00	22.10	D	C
35	ATOM	4986	CD2	TYR	D	734	6.088	65.419	82.989	1.00	21.57	D	C
	ATOM	4987	CE2	TYR	D	734	4.750	65.269	83.340	1.00	25.22	D	C
	ATOM	4988	CZ	TYR	D	734	4.305	65.776	84.551	1.00	24.56	D	C
	ATOM	4989	OH	TYR	D	734	2.981	65.674	84.914	1.00	30.31	D	O
	ATOM	4990	C	TYR	D	734	8.907	63.803	83.036	1.00	11.69	D	C
40	ATOM	4991	O	TYR	D	734	8.253	62.887	83.525	1.00	10.83	D	O
	ATOM	4992	N	GLU	D	735	9.321	63.771	81.775	1.00	11.04	D	N
	ATOM	4993	CA	GLU	D	735	8.968	62.643	80.918	1.00	11.49	D	C
	ATOM	4994	CB	GLU	D	735	9.423	62.909	79.472	1.00	10.85	D	C
	ATOM	4995	CG	GLU	D	735	8.720	64.079	78.788	1.00	9.11	D	C
45	ATOM	4996	CD	GLU	D	735	7.209	63.929	78.784	1.00	8.78	D	C
	ATOM	4997	OE1	GLU	D	735	6.697	62.880	78.344	1.00	11.56	D	O
	ATOM	4998	OE2	GLU	D	735	6.526	64.865	79.226	1.00	11.40	D	O
	ATOM	4999	C	GLU	D	735	9.568	61.332	81.428	1.00	11.12	D	C
	ATOM	5000	O	GLU	D	735	8.914	60.291	81.408	1.00	10.00	D	O
50	ATOM	5001	N	LEU	D	736	10.817	61.383	81.877	1.00	12.16	D	N
	ATOM	5002	CA	LEU	D	736	11.488	60.182	82.385	1.00	14.48	D	C
	ATOM	5003	CB	LEU	D	736	12.969	60.482	82.668	1.00	11.56	D	C
	ATOM	5004	CG	LEU	D	736	13.881	60.731	81.459	1.00	12.92	D	C
	ATOM	5005	CD1	LEU	D	736	15.168	61.428	81.914	1.00	7.76	D	C
55	ATOM	5006	CD2	LEU	D	736	14.201	59.410	80.758	1.00	7.55	D	C
	ATOM	5007	C	LEU	D	736	10.800	59.701	83.667	1.00	15.89	D	C
	ATOM	5008	O	LEU	D	736	10.652	58.502	83.905	1.00	17.44	D	O
	ATOM	5009	N	ASN	D	737	10.382	60.645	84.497	1.00	16.96	D	N
	ATOM	5010	CA	ASN	D	737	9.709	60.300	85.728	1.00	17.61	D	C
60	ATOM	5011	CB	ASN	D	737	9.475	61.540	86.548	1.00	21.22	D	C
	ATOM	5012	CG	ASN	D	737	9.038	61.210	87.937	1.00	24.65	D	C
	ATOM	5013	OD1	ASN	D	737	9.811	60.667	88.704	1.00	28.60	D	O
	ATOM	5014	ND2	ASN	D	737	7.789	61.515	88.268	1.00	24.38	D	N
	ATOM	5015	C	ASN	D	737	8.377	59.610	85.482	1.00	20.43	D	C
65	ATOM	5016	O	ASN	D	737	7.955	58.754	86.265	1.00	22.12	D	O
	ATOM	5017	N	LEU	D	738	7.701	59.979	84.402	1.00	18.72	D	N
	ATOM	5018	CA	LEU	D	738	6.424	59.353	84.096	1.00	18.63	D	C
	ATOM	5019	CB	LEU	D	738	5.847	59.912	82.793	1.00	18.53	D	C
	ATOM	5020	CG	LEU	D	738	5.314	61.349	82.824	1.00	19.24	D	C

	ATOM	5021	CD1	LEU	D	738	4.833	61.758	81.426	1.00	14.86	D	C
	ATOM	5022	CD2	LEU	D	738	4.200	61.448	83.845	1.00	13.46	D	C
	ATOM	5023	C	LEU	D	738	6.615	57.855	83.959	1.00	18.24	D	C
5	ATOM	5024	O	LEU	D	738	5.774	57.065	84.366	1.00	20.26	D	O
	ATOM	5025	N	ILE	D	739	7.732	57.459	83.379	1.00	17.88	D	N
	ATOM	5026	CA	ILE	D	739	7.979	56.047	83.182	1.00	17.84	D	C
	ATOM	5027	CB	ILE	D	739	9.148	55.820	82.223	1.00	17.57	D	C
	ATOM	5028	CG2	ILE	D	739	9.546	54.346	82.248	1.00	11.94	D	C
10	ATOM	5029	CG1	ILE	D	739	8.757	56.291	80.810	1.00	20.51	D	C
	ATOM	5030	CD1	ILE	D	739	9.922	56.780	79.978	1.00	20.87	D	C
	ATOM	5031	C	ILE	D	739	8.285	55.383	84.506	1.00	19.67	D	C
	ATOM	5032	O	ILE	D	739	7.814	54.271	84.774	1.00	17.54	D	O
	ATOM	5033	N	ALA	D	740	9.077	56.073	85.330	1.00	20.75	D	N
15	ATOM	5034	CA	ALA	D	740	9.454	55.564	86.651	1.00	22.77	D	C
	ATOM	5035	CB	ALA	D	740	10.412	56.529	87.333	1.00	20.84	D	C
	ATOM	5036	C	ALA	D	740	8.207	55.352	87.517	1.00	21.26	D	C
	ATOM	5037	O	ALA	D	740	8.058	54.318	88.164	1.00	20.82	D	O
	ATOM	5038	N	GLU	D	741	7.306	56.323	87.512	1.00	19.63	D	N
20	ATOM	5039	CA	GLU	D	741	6.089	56.202	88.293	1.00	22.13	D	C
	ATOM	5040	CB	GLU	D	741	5.297	57.503	88.235	1.00	22.45	D	C
	ATOM	5041	CG	GLU	D	741	6.064	58.702	88.758	1.00	32.72	D	C
	ATOM	5042	CD	GLU	D	741	6.018	58.795	90.278	1.00	36.02	D	C
	ATOM	5043	OE1	GLU	D	741	7.001	59.271	90.884	1.00	37.49	D	O
25	ATOM	5044	OE2	GLU	D	741	4.992	58.386	90.866	1.00	39.52	D	O
	ATOM	5045	C	GLU	D	741	5.216	55.064	87.785	1.00	23.14	D	C
	ATOM	5046	O	GLU	D	741	4.588	54.363	88.575	1.00	21.04	D	O
	ATOM	5047	N	GLY	D	742	5.167	54.893	86.465	1.00	23.85	D	N
	ATOM	5048	CA	GLY	D	742	4.350	53.838	85.902	1.00	24.32	D	C
30	ATOM	5049	C	GLY	D	742	4.828	52.467	86.328	1.00	25.26	D	C
	ATOM	5050	O	GLY	D	742	4.077	51.493	86.274	1.00	27.82	D	O
	ATOM	5051	N	LEU	D	743	6.081	52.395	86.761	1.00	25.85	D	N
	ATOM	5052	CA	LEU	D	743	6.696	51.140	87.183	1.00	25.98	D	C
	ATOM	5053	CB	LEU	D	743	8.124	51.086	86.649	1.00	23.44	D	C
35	ATOM	5054	CG	LEU	D	743	8.447	50.391	85.325	1.00	24.73	D	C
	ATOM	5055	CD1	LEU	D	743	7.218	50.298	84.456	1.00	24.87	D	C
	ATOM	5056	CD2	LEU	D	743	9.567	51.139	84.637	1.00	21.05	D	C
	ATOM	5057	C	LEU	D	743	6.733	50.975	88.708	1.00	30.68	D	C
	ATOM	5058	O	LEU	D	743	6.923	49.880	89.220	1.00	34.79	D	O
40	ATOM	5059	N	LYS	D	744	6.558	52.079	89.422	1.00	34.25	D	N
	ATOM	5060	CA	LYS	D	744	6.601	52.120	90.878	1.00	35.72	D	C
	ATOM	5061	CB	LYS	D	744	6.289	53.537	91.334	1.00	33.53	D	C
	ATOM	5062	CG	LYS	D	744	7.398	54.213	92.050	1.00	31.37	D	C
	ATOM	5063	CD	LYS	D	744	6.814	55.085	93.116	1.00	35.28	D	C
45	ATOM	5064	CE	LYS	D	744	7.282	56.506	92.985	1.00	38.68	D	C
	ATOM	5065	NZ	LYS	D	744	7.164	57.177	94.316	1.00	41.49	D	N
	ATOM	5066	C	LYS	D	744	5.688	51.149	91.629	1.00	41.29	D	C
	ATOM	5067	O	LYS	D	744	4.529	50.930	91.257	1.00	41.36	D	O
	ATOM	5068	N	SER	D	745	6.228	50.591	92.710	1.00	45.87	D	N
50	ATOM	5069	CA	SER	D	745	5.500	49.655	93.557	1.00	51.39	D	C
	ATOM	5070	CB	SER	D	745	5.251	48.346	92.797	1.00	52.22	D	C
	ATOM	5071	OG	SER	D	745	3.932	47.877	93.017	1.00	56.77	D	O
	ATOM	5072	C	SER	D	745	6.291	49.384	94.853	1.00	56.03	D	C
	ATOM	5073	O	SER	D	745	6.904	48.291	94.968	1.00	59.59	D	O
55	ATOM	5074	OT	SER	D	745	6.293	50.271	95.747	1.00	57.67	D	O
	ATOM	5075	CB	SER	E	106	-10.958	60.158	13.296	1.00	37.99	E	C
	ATOM	5076	OG	SER	E	106	-11.885	59.309	13.952	1.00	41.76	E	O
	ATOM	5077	C	SER	E	106	-13.139	60.672	12.192	1.00	36.66	E	C
	ATOM	5078	O	SER	E	106	-13.816	61.522	12.784	1.00	36.95	E	O
60	ATOM	5079	N	SER	E	106	-11.119	62.212	11.911	1.00	35.31	E	N
	ATOM	5080	CA	SER	E	106	-11.608	60.803	12.073	1.00	37.50	E	C
	ATOM	5081	N	PRO	E	107	-13.697	59.574	11.656	1.00	35.15	E	N
	ATOM	5082	CD	PRO	E	107	-12.978	58.464	11.008	1.00	31.79	E	C
	ATOM	5083	CA	PRO	E	107	-15.140	59.334	11.696	1.00	35.21	E	C
65	ATOM	5084	CB	PRO	E	107	-15.292	57.949	11.061	1.00	33.67	E	C
	ATOM	5085	CG	PRO	E	107	-14.061	57.742	10.276	1.00	29.84	E	C
	ATOM	5086	C	PRO	E	107	-15.744	59.382	13.098	1.00	37.78	E	C
	ATOM	5087	O	PRO	E	107	-16.852	59.891	13.282	1.00	38.22	E	O
	ATOM	5088	N	THR	E	108	-15.013	58.857	14.081	1.00	38.32	E	N

	ATOM	5089	CA	THR	E	108	-15.491	58.808	15.465	1.00	37.55	E	C
	ATOM	5090	CB	THR	E	108	-14.542	57.956	16.343	1.00	37.94	E	C
	ATOM	5091	OG1	THR	E	108	-13.353	58.700	16.635	1.00	39.95	E	O
5	ATOM	5092	CG2	THR	E	108	-14.160	56.670	15.615	1.00	36.83	E	C
	ATOM	5093	C	THR	E	108	-15.738	60.151	16.167	1.00	35.75	E	C
	ATOM	5094	O	THR	E	108	-16.411	60.199	17.205	1.00	38.56	E	O
	ATOM	5095	N	TYR	E	109	-15.222	61.241	15.611	1.00	33.16	E	N
	ATOM	5096	CA	TYR	E	109	-15.429	62.546	16.235	1.00	29.26	E	C
10	ATOM	5097	CB	TYR	E	109	-14.204	63.431	16.022	1.00	28.25	E	C
	ATOM	5098	CG	TYR	E	109	-13.135	63.208	17.063	1.00	30.49	E	C
	ATOM	5099	CD1	TYR	E	109	-12.699	61.914	17.380	1.00	32.77	E	C
	ATOM	5100	CE1	TYR	E	109	-11.689	61.699	18.325	1.00	29.07	E	C
	ATOM	5101	CD2	TYR	E	109	-12.540	64.282	17.721	1.00	26.99	E	C
15	ATOM	5102	CE2	TYR	E	109	-11.533	64.081	18.662	1.00	24.18	E	C
	ATOM	5103	CZ	TYR	E	109	-11.109	62.793	18.957	1.00	27.84	E	C
	ATOM	5104	OH	TYR	E	109	-10.079	62.604	19.853	1.00	30.06	E	O
	ATOM	5105	C	TYR	E	109	-16.671	63.268	15.731	1.00	27.52	E	C
	ATOM	5106	O	TYR	E	109	-16.847	64.457	15.990	1.00	24.66	E	O
20	ATOM	5107	N	GLN	E	110	-17.539	62.549	15.025	1.00	27.03	E	N
	ATOM	5108	CA	GLN	E	110	-18.761	63.151	14.487	1.00	28.31	E	C
	ATOM	5109	CB	GLN	E	110	-19.578	62.107	13.700	1.00	29.52	E	C
	ATOM	5110	CG	GLN	E	110	-20.775	62.679	12.919	1.00	31.01	E	C
	ATOM	5111	CD	GLN	E	110	-20.351	63.598	11.773	1.00	32.24	E	C
25	ATOM	5112	OE1	GLN	E	110	-19.163	63.697	11.459	1.00	31.01	E	O
	ATOM	5113	NE2	GLN	E	110	-21.323	64.270	11.144	1.00	28.68	E	N
	ATOM	5114	C	GLN	E	110	-19.593	63.670	15.645	1.00	27.21	E	C
	ATOM	5115	O	GLN	E	110	-20.408	64.586	15.499	1.00	25.55	E	O
	ATOM	5116	N	THR	E	111	-19.325	63.086	16.805	1.00	25.61	E	N
30	ATOM	5117	CA	THR	E	111	-20.038	63.368	18.036	1.00	23.92	E	C
	ATOM	5118	CB	THR	E	111	-20.363	61.995	18.666	1.00	26.13	E	C
	ATOM	5119	OG1	THR	E	111	-21.777	61.802	18.661	1.00	29.72	E	O
	ATOM	5120	CG2	THR	E	111	-19.793	61.860	20.048	1.00	25.39	E	C
	ATOM	5121	C	THR	E	111	-19.295	64.292	19.024	1.00	22.48	E	C
35	ATOM	5122	O	THR	E	111	-19.827	64.671	20.071	1.00	19.23	E	O
	ATOM	5123	N	VAL	E	112	-18.075	64.673	18.670	1.00	19.20	E	N
	ATOM	5124	CA	VAL	E	112	-17.248	65.515	19.530	1.00	16.56	E	C
	ATOM	5125	CB	VAL	E	112	-15.792	65.003	19.522	1.00	12.54	E	C
	ATOM	5126	CG1	VAL	E	112	-14.928	65.834	20.468	1.00	12.42	E	C
40	ATOM	5127	CG2	VAL	E	112	-15.763	63.536	19.899	1.00	11.64	E	C
	ATOM	5128	C	VAL	E	112	-17.230	66.999	19.142	1.00	17.60	E	C
	ATOM	5129	O	VAL	E	112	-16.746	67.356	18.070	1.00	15.90	E	O
	ATOM	5130	N	PRO	E	113	-17.744	67.883	20.019	1.00	16.14	E	N
	ATOM	5131	CD	PRO	E	113	-18.349	67.589	21.327	1.00	15.50	E	C
45	ATOM	5132	CA	PRO	E	113	-17.756	69.320	19.726	1.00	14.30	E	C
	ATOM	5133	CB	PRO	E	113	-18.432	69.943	20.948	1.00	15.13	E	C
	ATOM	5134	CG	PRO	E	113	-19.162	68.825	21.602	1.00	14.03	E	C
	ATOM	5135	C	PRO	E	113	-16.338	69.835	19.587	1.00	16.20	E	C
	ATOM	5136	O	PRO	E	113	-15.375	69.168	19.985	1.00	16.41	E	O
50	ATOM	5137	N	ASP	E	114	-16.205	71.022	19.016	1.00	16.89	E	N
	ATOM	5138	CA	ASP	E	114	-14.892	71.633	18.877	1.00	19.46	E	C
	ATOM	5139	CB	ASP	E	114	-14.958	72.854	17.963	1.00	24.08	E	C
	ATOM	5140	CG	ASP	E	114	-15.167	72.489	16.499	1.00	33.32	E	C
	ATOM	5141	OD1	ASP	E	114	-14.824	71.351	16.092	1.00	37.48	E	O
55	ATOM	5142	OD2	ASP	E	114	-15.677	73.352	15.747	1.00	36.51	E	O
	ATOM	5143	C	ASP	E	114	-14.468	72.111	20.263	1.00	19.67	E	C
	ATOM	5144	O	ASP	E	114	-15.311	72.327	21.129	1.00	21.53	E	O
	ATOM	5145	N	PHE	E	115	-13.167	72.259	20.475	1.00	16.56	E	N
	ATOM	5146	CA	PHE	E	115	-12.658	72.778	21.732	1.00	15.89	E	C
60	ATOM	5147	CB	PHE	E	115	-12.847	71.770	22.897	1.00	13.90	E	C
	ATOM	5148	CG	PHE	E	115	-12.070	70.482	22.768	1.00	11.31	E	C
	ATOM	5149	CD1	PHE	E	115	-12.625	69.377	22.132	1.00	14.14	E	C
	ATOM	5150	CD2	PHE	E	115	-10.827	70.345	23.365	1.00	11.80	E	C
	ATOM	5151	CE1	PHE	E	115	-11.954	68.151	22.097	1.00	11.28	E	C
65	ATOM	5152	CE2	PHE	E	115	-10.144	69.127	23.338	1.00	13.77	E	C
	ATOM	5153	CZ	PHE	E	115	-10.709	68.027	22.703	1.00	13.73	E	C
	ATOM	5154	C	PHE	E	115	-11.203	73.163	21.522	1.00	17.03	E	C
	ATOM	5155	O	PHE	E	115	-10.563	72.685	20.582	1.00	20.16	E	O
	ATOM	5156	N	GLN	E	116	-10.682	74.052	22.360	1.00	15.05	E	N

	ATOM	5157	CA	GLN	E	116	-9.301	74.480	22.219	1.00	14.19	E	C
	ATOM	5158	CB	GLN	E	116	-9.086	75.808	22.943	1.00	13.58	E	C
	ATOM	5159	CG	GLN	E	116	-10.088	76.857	22.542	1.00	16.85	E	C
5	ATOM	5160	CD	GLN	E	116	-9.752	78.232	23.082	1.00	21.35	E	C
	ATOM	5161	OE1	GLN	E	116	-10.271	78.645	24.118	1.00	21.20	E	O
	ATOM	5162	NE2	GLN	E	116	-8.879	78.954	22.375	1.00	22.26	E	N
	ATOM	5163	C	GLN	E	116	-8.336	73.428	22.751	1.00	14.82	E	C
	ATOM	5164	O	GLN	E	116	-8.480	72.915	23.867	1.00	16.44	E	O
10	ATOM	5165	N	ARG	E	117	-7.340	73.108	21.945	1.00	13.28	E	N
	ATOM	5166	CA	ARG	E	117	-6.367	72.129	22.351	1.00	13.85	E	C
	ATOM	5167	CB	ARG	E	117	-6.217	71.076	21.271	1.00	14.53	E	C
	ATOM	5168	CG	ARG	E	117	-7.263	69.996	21.360	1.00	17.02	E	C
	ATOM	5169	CD	ARG	E	117	-7.853	69.782	20.008	1.00	21.00	E	C
	ATOM	5170	NE	ARG	E	117	-8.567	68.520	19.918	1.00	20.11	E	N
15	ATOM	5171	CZ	ARG	E	117	-9.808	68.425	19.469	1.00	20.71	E	C
	ATOM	5172	NH1	ARG	E	117	-10.442	69.521	19.081	1.00	22.69	E	N
	ATOM	5173	NH2	ARG	E	117	-10.406	67.245	19.390	1.00	20.69	E	N
	ATOM	5174	C	ARG	E	117	-5.030	72.766	22.627	1.00	13.66	E	C
20	ATOM	5175	O	ARG	E	117	-4.718	73.838	22.108	1.00	13.48	E	O
	ATOM	5176	N	VAL	E	118	-4.237	72.125	23.467	1.00	13.32	E	N
	ATOM	5177	CA	VAL	E	118	-2.931	72.670	23.728	1.00	16.88	E	C
	ATOM	5178	CB	VAL	E	118	-2.582	72.737	25.275	1.00	19.32	E	C
	ATOM	5179	CG1	VAL	E	118	-3.755	72.255	26.119	1.00	17.76	E	C
	ATOM	5180	CG2	VAL	E	118	-1.305	71.980	25.573	1.00	17.82	E	C
25	ATOM	5181	C	VAL	E	118	-1.949	71.799	22.975	1.00	18.26	E	C
	ATOM	5182	O	VAL	E	118	-1.908	70.577	23.143	1.00	18.31	E	O
	ATOM	5183	N	GLN	E	119	-1.172	72.423	22.105	1.00	20.65	E	N
	ATOM	5184	CA	GLN	E	119	-0.194	71.655	21.366	1.00	23.77	E	C
30	ATOM	5185	CB	GLN	E	119	-0.571	71.542	19.892	1.00	26.99	E	C
	ATOM	5186	CG	GLN	E	119	-0.903	72.835	19.216	1.00	37.33	E	C
	ATOM	5187	CD	GLN	E	119	-1.077	72.647	17.712	1.00	45.80	E	C
	ATOM	5188	OE1	GLN	E	119	-0.267	73.140	16.911	1.00	45.58	E	O
	ATOM	5189	NE2	GLN	E	119	-2.133	71.921	17.322	1.00	43.57	E	N
35	ATOM	5190	C	GLN	E	119	1.182	72.254	21.525	1.00	21.76	E	C
	ATOM	5191	O	GLN	E	119	1.353	73.463	21.680	1.00	21.62	E	O
	ATOM	5192	N	ILE	E	120	2.163	71.370	21.508	1.00	20.62	E	N
	ATOM	5193	CA	ILE	E	120	3.540	71.740	21.678	1.00	19.86	E	C
	ATOM	5194	CB	ILE	E	120	4.211	70.798	22.710	1.00	18.39	E	C
40	ATOM	5195	CG2	ILE	E	120	5.641	71.242	22.990	1.00	16.28	E	C
	ATOM	5196	CG1	ILE	E	120	3.365	70.737	23.990	1.00	15.70	E	C
	ATOM	5197	CD1	ILE	E	120	3.038	72.073	24.603	1.00	10.99	E	C
	ATOM	5198	C	ILE	E	120	4.278	71.652	20.347	1.00	22.63	E	C
	ATOM	5199	O	ILE	E	120	4.311	70.603	19.705	1.00	20.43	E	O
45	ATOM	5200	N	THR	E	121	4.873	72.768	19.942	1.00	24.65	E	N
	ATOM	5201	CA	THR	E	121	5.634	72.816	18.698	1.00	27.14	E	C
	ATOM	5202	CB	THR	E	121	5.591	74.214	18.060	1.00	23.03	E	C
	ATOM	5203	OG1	THR	E	121	6.559	75.039	18.697	1.00	27.39	E	O
	ATOM	5204	CG2	THR	E	121	4.236	74.846	18.209	1.00	22.85	E	C
50	ATOM	5205	C	THR	E	121	7.092	72.468	18.998	1.00	28.97	E	C
	ATOM	5206	O	THR	E	121	7.521	72.506	20.148	1.00	32.23	E	O
	ATOM	5207	N	GLY	E	122	7.850	72.106	17.973	1.00	31.30	E	N
	ATOM	5208	CA	GLY	E	122	9.246	71.779	18.186	1.00	33.43	E	C
	ATOM	5209	C	GLY	E	122	9.564	70.320	18.447	1.00	37.20	E	C
55	ATOM	5210	O	GLY	E	122	8.682	69.504	18.732	1.00	38.04	E	O
	ATOM	5211	N	ASP	E	123	10.855	70.006	18.354	1.00	41.01	E	N
	ATOM	5212	CA	ASP	E	123	11.364	68.653	18.557	1.00	44.88	E	C
	ATOM	5213	CB	ASP	E	123	12.711	68.472	17.834	1.00	50.97	E	C
	ATOM	5214	CG	ASP	E	123	12.674	68.943	16.383	1.00	57.17	E	C
60	ATOM	5215	OD1	ASP	E	123	11.789	68.471	15.627	1.00	60.71	E	O
	ATOM	5216	OD2	ASP	E	123	13.531	69.782	16.001	1.00	59.90	E	O
	ATOM	5217	C	ASP	E	123	11.562	68.367	20.036	1.00	44.69	E	C
	ATOM	5218	O	ASP	E	123	12.067	69.212	20.781	1.00	44.10	E	O
	ATOM	5219	N	TYR	E	124	11.181	67.166	20.460	1.00	45.58	E	N
65	ATOM	5220	CA	TYR	E	124	11.333	66.779	21.860	1.00	43.75	E	C
	ATOM	5221	CB	TYR	E	124	10.392	65.614	22.188	1.00	39.33	E	C
	ATOM	5222	CG	TYR	E	124	9.029	66.090	22.611	1.00	36.63	E	C
	ATOM	5223	CD1	TYR	E	124	7.978	66.135	21.699	1.00	34.65	E	C
	ATOM	5224	CE1	TYR	E	124	6.740	66.660	22.057	1.00	35.89	E	C

	ATOM	5225	CD2	TYR	E	124	8.808	66.576	23.903	1.00	34.55	E	C
	ATOM	5226	CE2	TYR	E	124	7.570	67.104	24.272	1.00	33.36	E	C
	ATOM	5227	CZ	TYR	E	124	6.543	67.145	23.341	1.00	33.68	E	C
	ATOM	5228	OH	TYR	E	124	5.327	67.683	23.676	1.00	31.96	E	O
5	ATOM	5229	C	TYR	E	124	12.778	66.406	22.194	1.00	44.34	E	C
	ATOM	5230	O	TYR	E	124	13.264	65.367	21.690	1.00	45.78	E	O
	ATOM	5231	OT	TYR	E	124	13.409	67.167	22.958	1.00	45.36	E	O
	ATOM	5232	CB	ASP	F	132	20.354	58.803	26.446	1.00	51.58	F	C
	ATOM	5233	CG	ASP	F	132	20.230	59.168	27.932	1.00	56.77	F	C
10	ATOM	5234	OD1	ASP	F	132	19.648	60.237	28.243	1.00	60.14	F	O
	ATOM	5235	OD2	ASP	F	132	20.715	58.393	28.790	1.00	58.00	F	O
	ATOM	5236	C	ASP	F	132	18.274	57.386	26.309	1.00	44.89	F	C
	ATOM	5237	O	ASP	F	132	17.749	56.638	27.142	1.00	41.55	F	O
	ATOM	5238	N	ASP	F	132	20.194	56.998	24.740	1.00	45.19	F	N
15	ATOM	5239	CA	ASP	F	132	19.800	57.404	26.129	1.00	46.83	F	C
	ATOM	5240	N	PHE	F	133	17.570	58.222	25.543	1.00	43.05	F	N
	ATOM	5241	CA	PHE	F	133	16.108	58.253	25.600	1.00	42.94	F	C
	ATOM	5242	CB	PHE	F	133	15.531	59.341	24.682	1.00	38.71	F	C
	ATOM	5243	CG	PHE	F	133	14.017	59.345	24.617	1.00	40.12	F	C
20	ATOM	5244	CD1	PHE	F	133	13.357	59.651	23.426	1.00	39.84	F	C
	ATOM	5245	CD2	PHE	F	133	13.246	59.027	25.753	1.00	40.73	F	C
	ATOM	5246	CE1	PHE	F	133	11.943	59.642	23.364	1.00	40.76	F	C
	ATOM	5247	CE2	PHE	F	133	11.838	59.012	25.705	1.00	36.74	F	C
	ATOM	5248	CZ	PHE	F	133	11.186	59.319	24.512	1.00	39.89	F	C
25	ATOM	5249	C	PHE	F	133	15.702	56.887	25.073	1.00	42.93	F	C
	ATOM	5250	O	PHE	F	133	14.680	56.314	25.458	1.00	44.61	F	O
	ATOM	5251	N	GLU	F	134	16.542	56.387	24.177	1.00	41.65	F	N
	ATOM	5252	CA	GLU	F	134	16.357	55.101	23.554	1.00	40.96	F	C
	ATOM	5253	CB	GLU	F	134	17.579	54.778	22.699	1.00	45.67	F	C
30	ATOM	5254	CG	GLU	F	134	17.245	54.310	21.296	1.00	52.45	F	C
	ATOM	5255	CD	GLU	F	134	17.635	52.855	21.067	1.00	57.46	F	C
	ATOM	5256	OE1	GLU	F	134	18.652	52.410	21.651	1.00	59.40	F	O
	ATOM	5257	OE2	GLU	F	134	16.922	52.158	20.308	1.00	57.97	F	O
	ATOM	5258	C	GLU	F	134	16.173	54.037	24.621	1.00	38.45	F	C
35	ATOM	5259	O	GLU	F	134	15.204	53.281	24.590	1.00	38.38	F	O
	ATOM	5260	N	ILE	F	135	17.100	53.979	25.572	1.00	35.96	F	N
	ATOM	5261	CA	ILE	F	135	17.006	52.979	26.622	1.00	33.40	F	C
	ATOM	5262	CB	ILE	F	135	18.302	52.922	27.472	1.00	36.59	F	C
	ATOM	5263	CG2	ILE	F	135	19.518	53.147	26.569	1.00	36.50	F	C
40	ATOM	5264	CG1	ILE	F	135	18.249	53.953	28.600	1.00	39.77	F	C
	ATOM	5265	CD1	ILE	F	135	18.064	53.345	29.991	1.00	41.78	F	C
	ATOM	5266	C	ILE	F	135	15.799	53.235	27.514	1.00	31.03	F	C
	ATOM	5267	O	ILE	F	135	15.217	52.300	28.064	1.00	30.94	F	O
	ATOM	5268	N	VAL	F	136	15.414	54.500	27.658	1.00	27.21	F	N
45	ATOM	5269	CA	VAL	F	136	14.245	54.816	28.469	1.00	24.26	F	C
	ATOM	5270	CB	VAL	F	136	14.087	56.337	28.665	1.00	19.85	F	C
	ATOM	5271	CG1	VAL	F	136	12.771	56.644	29.318	1.00	16.73	F	C
	ATOM	5272	CG2	VAL	F	136	15.209	56.857	29.509	1.00	19.60	F	C
	ATOM	5273	C	VAL	F	136	13.006	54.261	27.760	1.00	24.24	F	C
50	ATOM	5274	O	VAL	F	136	12.187	53.581	28.373	1.00	24.37	F	O
	ATOM	5275	N	CYS	F	137	12.892	54.541	26.463	1.00	22.57	F	N
	ATOM	5276	CA	CYS	F	137	11.763	54.082	25.659	1.00	22.23	F	C
	ATOM	5277	CB	CYS	F	137	11.911	54.611	24.236	1.00	22.90	F	C
	ATOM	5278	SG	CYS	F	137	11.485	56.352	24.079	1.00	30.26	F	S
55	ATOM	5279	C	CYS	F	137	11.675	52.562	25.640	1.00	22.57	F	C
	ATOM	5280	O	CYS	F	137	10.580	51.975	25.685	1.00	21.59	F	O
	ATOM	5281	N	LYS	F	138	12.838	51.926	25.562	1.00	22.42	F	N
	ATOM	5282	CA	LYS	F	138	12.916	50.475	25.540	1.00	23.75	F	C
	ATOM	5283	CB	LYS	F	138	14.356	50.030	25.326	1.00	25.77	F	C
60	ATOM	5284	CG	LYS	F	138	14.715	49.828	23.866	1.00	35.47	F	C
	ATOM	5285	CD	LYS	F	138	16.233	49.834	23.668	1.00	40.84	F	C
	ATOM	5286	CE	LYS	F	138	16.614	49.621	22.204	1.00	44.26	F	C
	ATOM	5287	NZ	LYS	F	138	17.225	48.273	21.965	1.00	45.21	F	N
	ATOM	5288	C	LYS	F	138	12.410	49.908	26.859	1.00	21.95	F	C
65	ATOM	5289	O	LYS	F	138	11.711	48.896	26.873	1.00	21.36	F	O
	ATOM	5290	N	GLY	F	139	12.766	50.573	27.958	1.00	18.94	F	N
	ATOM	5291	CA	GLY	F	139	12.352	50.134	29.281	1.00	16.41	F	C
	ATOM	5292	C	GLY	F	139	10.853	50.221	29.484	1.00	14.99	F	C

	ATOM	5293	O	GLY F 139	10.228	49.289	29.971	1.00	15.53	F	O
	ATOM	5294	N	LEU F 140	10.271	51.350	29.112	1.00	16.03	F	N
	ATOM	5295	CA	LEU F 140	8.838	51.540	29.256	1.00	15.42	F	C
5	ATOM	5296	CB	LEU F 140	8.463	52.975	28.897	1.00	15.35	F	C
	ATOM	5297	CG	LEU F 140	9.019	54.043	29.845	1.00	16.14	F	C
	ATOM	5298	CD1	LEU F 140	8.567	55.432	29.393	1.00	16.67	F	C
	ATOM	5299	CD2	LEU F 140	8.533	53.778	31.257	1.00	13.02	F	C
	ATOM	5300	C	LEU F 140	8.119	50.562	28.348	1.00	16.61	F	C
10	ATOM	5301	O	LEU F 140	7.031	50.088	28.672	1.00	14.39	F	O
	ATOM	5302	N	TYR F 141	8.737	50.255	27.209	1.00	16.54	F	N
	ATOM	5303	CA	TYR F 141	8.142	49.308	26.277	1.00	16.52	F	C
	ATOM	5304	CB	TYR F 141	8.958	49.236	24.975	1.00	16.85	F	C
	ATOM	5305	CG	TYR F 141	8.646	48.001	24.168	1.00	14.26	F	C
15	ATOM	5306	CD1	TYR F 141	9.455	46.876	24.252	1.00	17.37	F	C
	ATOM	5307	CE1	TYR F 141	9.134	45.710	23.560	1.00	22.62	F	C
	ATOM	5308	CD2	TYR F 141	7.508	47.940	23.365	1.00	15.78	F	C
	ATOM	5309	CE2	TYR F 141	7.176	46.790	22.668	1.00	17.42	F	C
	ATOM	5310	CZ	TYR F 141	7.990	45.677	22.773	1.00	23.66	F	C
20	ATOM	5311	OH	TYR F 141	7.645	44.516	22.119	1.00	29.59	F	O
	ATOM	5312	C	TYR F 141	8.099	47.921	26.915	1.00	15.16	F	C
	ATOM	5313	O	TYR F 141	7.062	47.261	26.935	1.00	14.17	F	O
	ATOM	5314	N	ARG F 142	9.236	47.472	27.429	1.00	13.92	F	N
	ATOM	5315	CA	ARG F 142	9.274	46.158	28.032	1.00	16.56	F	C
25	ATOM	5316	CB	ARG F 142	10.707	45.793	28.448	1.00	17.88	F	C
	ATOM	5317	CG	ARG F 142	10.749	44.524	29.293	1.00	22.39	F	C
	ATOM	5318	CD	ARG F 142	12.046	43.721	29.233	1.00	22.64	F	C
	ATOM	5319	NE	ARG F 142	11.872	42.498	30.030	1.00	31.13	F	N
	ATOM	5320	CZ	ARG F 142	12.830	41.887	30.730	1.00	31.43	F	C
30	ATOM	5321	NH1	ARG F 142	14.061	42.378	30.741	1.00	31.44	F	N
	ATOM	5322	NH2	ARG F 142	12.546	40.804	31.455	1.00	27.03	F	N
	ATOM	5323	C	ARG F 142	8.323	46.081	29.236	1.00	16.73	F	C
	ATOM	5324	O	ARG F 142	7.664	45.060	29.456	1.00	18.69	F	O
	ATOM	5325	N	ALA F 143	8.228	47.164	30.003	1.00	14.94	F	N
35	ATOM	5326	CA	ALA F 143	7.346	47.171	31.167	1.00	13.49	F	C
	ATOM	5327	CB	ALA F 143	7.463	48.482	31.911	1.00	12.14	F	C
	ATOM	5328	C	ALA F 143	5.896	46.928	30.777	1.00	13.24	F	C
	ATOM	5329	O	ALA F 143	5.210	46.117	31.408	1.00	11.88	F	O
	ATOM	5330	N	LEU F 144	5.427	47.632	29.744	1.00	13.14	F	N
40	ATOM	5331	CA	LEU F 144	4.048	47.481	29.275	1.00	12.74	F	C
	ATOM	5332	CB	LEU F 144	3.725	48.545	28.226	1.00	11.99	F	C
	ATOM	5333	CG	LEU F 144	3.506	49.953	28.782	1.00	15.32	F	C
	ATOM	5334	CD1	LEU F 144	3.349	50.973	27.658	1.00	13.81	F	C
	ATOM	5335	CD2	LEU F 144	2.268	49.942	29.678	1.00	15.19	F	C
45	ATOM	5336	C	LEU F 144	3.818	46.088	28.695	1.00	14.69	F	C
	ATOM	5337	O	LEU F 144	2.716	45.537	28.794	1.00	14.71	F	O
	ATOM	5338	N	CYS F 145	4.859	45.518	28.095	1.00	15.55	F	N
	ATOM	5339	CA	CYS F 145	4.765	44.181	27.524	1.00	18.03	F	C
	ATOM	5340	CB	CYS F 145	6.012	43.860	26.709	1.00	24.84	F	C
50	ATOM	5341	SG	CYS F 145	5.891	44.438	25.032	1.00	41.18	F	S
	ATOM	5342	C	CYS F 145	4.640	43.162	28.646	1.00	15.66	F	C
	ATOM	5343	O	CYS F 145	3.897	42.186	28.539	1.00	14.81	F	O
	ATOM	5344	N	ILE F 146	5.389	43.384	29.720	1.00	15.25	F	N
	ATOM	5345	CA	ILE F 146	5.341	42.482	30.864	1.00	15.07	F	C
55	ATOM	5346	CB	ILE F 146	6.368	42.909	31.941	1.00	16.98	F	C
	ATOM	5347	CG2	ILE F 146	6.004	42.322	33.305	1.00	13.25	F	C
	ATOM	5348	CG1	ILE F 146	7.764	42.452	31.523	1.00	13.05	F	C
	ATOM	5349	CD1	ILE F 146	8.864	43.188	32.247	1.00	13.47	F	C
	ATOM	5350	C	ILE F 146	3.932	42.451	31.466	1.00	15.79	F	C
60	ATOM	5351	O	ILE F 146	3.388	41.372	31.731	1.00	16.53	F	O
	ATOM	5352	N	ARG F 147	3.336	43.626	31.673	1.00	13.60	F	N
	ATOM	5353	CA	ARG F 147	1.994	43.674	32.247	1.00	15.57	F	C
	ATOM	5354	CB	ARG F 147	1.560	45.114	32.542	1.00	11.32	F	C
	ATOM	5355	CG	ARG F 147	0.078	45.193	32.925	1.00	6.74	F	C
65	ATOM	5356	CD	ARG F 147	-0.273	46.472	33.645	1.00	7.75	F	C
	ATOM	5357	NE	ARG F 147	-1.700	46.529	33.957	1.00	9.74	F	N
	ATOM	5358	CZ	ARG F 147	-2.259	46.007	35.050	1.00	11.93	F	C
	ATOM	5359	NH1	ARG F 147	-1.502	45.382	35.947	1.00	9.63	F	N
	ATOM	5360	NH2	ARG F 147	-3.574	46.105	35.244	1.00	9.00	F	N

	ATOM	5361	C	ARG	F	147	0.956	43.014	31.331	1.00	17.15	F	C
	ATOM	5362	O	ARG	F	147	0.111	42.233	31.805	1.00	17.46	F	O
	ATOM	5363	N	GLU	F	148	1.008	43.343	30.034	1.00	16.24	F	N
	ATOM	5364	CA	GLU	F	148	0.087	42.768	29.046	1.00	14.76	F	C
5	ATOM	5365	CB	GLU	F	148	0.423	43.270	27.629	1.00	15.15	F	C
	ATOM	5366	CG	GLU	F	148	-0.480	42.673	26.539	1.00	15.57	F	C
	ATOM	5367	CD	GLU	F	148	0.045	42.916	25.127	1.00	21.01	F	C
	ATOM	5368	OE1	GLU	F	148	-0.709	43.429	24.272	1.00	24.02	F	O
	ATOM	5369	OE2	GLU	F	148	1.216	42.592	24.867	1.00	22.01	F	O
10	ATOM	5370	C	GLU	F	148	0.185	41.234	29.070	1.00	15.20	F	C
	ATOM	5371	O	GLU	F	148	-0.825	40.532	29.011	1.00	16.69	F	O
	ATOM	5372	N	LYS	F	149	1.410	40.721	29.161	1.00	13.11	F	N
	ATOM	5373	CA	LYS	F	149	1.631	39.282	29.200	1.00	13.81	F	C
	ATOM	5374	CB	LYS	F	149	3.124	38.988	29.273	1.00	12.03	F	C
15	ATOM	5375	CG	LYS	F	149	3.444	37.501	29.322	1.00	15.18	F	C
	ATOM	5376	CD	LYS	F	149	4.944	37.259	29.252	1.00	14.84	F	C
	ATOM	5377	CE	LYS	F	149	5.679	37.873	30.445	1.00	17.37	F	C
	ATOM	5378	NZ	LYS	F	149	7.117	37.455	30.484	1.00	13.89	F	N
	ATOM	5379	C	LYS	F	149	0.938	38.611	30.386	1.00	15.87	F	C
20	ATOM	5380	O	LYS	F	149	0.197	37.635	30.209	1.00	15.87	F	O
	ATOM	5381	N	TYR	F	150	1.172	39.137	31.590	1.00	12.07	F	N
	ATOM	5382	CA	TYR	F	150	0.577	38.556	32.782	1.00	11.95	F	C
	ATOM	5383	CB	TYR	F	150	1.294	39.102	34.023	1.00	14.19	F	C
	ATOM	5384	CG	TYR	F	150	2.689	38.539	34.139	1.00	13.74	F	C
25	ATOM	5385	CD1	TYR	F	150	2.885	37.181	34.386	1.00	17.50	F	C
	ATOM	5386	CE1	TYR	F	150	4.165	36.628	34.417	1.00	15.47	F	C
	ATOM	5387	CD2	TYR	F	150	3.815	39.337	33.931	1.00	16.72	F	C
	ATOM	5388	CE2	TYR	F	150	5.104	38.793	33.961	1.00	15.59	F	C
	ATOM	5389	CZ	TYR	F	150	5.264	37.436	34.200	1.00	17.56	F	C
30	ATOM	5390	OH	TYR	F	150	6.517	36.874	34.194	1.00	17.90	F	O
	ATOM	5391	C	TYR	F	150	-0.923	38.754	32.862	1.00	10.46	F	C
	ATOM	5392	O	TYR	F	150	-1.634	37.913	33.406	1.00	10.64	F	O
	ATOM	5393	N	MET	F	151	-1.417	39.855	32.305	1.00	12.42	F	N
	ATOM	5394	CA	MET	F	151	-2.864	40.108	32.315	1.00	14.39	F	C
35	ATOM	5395	CB	MET	F	151	-3.171	41.536	31.829	1.00	11.55	F	C
	ATOM	5396	CG	MET	F	151	-2.843	42.640	32.835	1.00	13.09	F	C
	ATOM	5397	SD	MET	F	151	-3.640	42.396	34.462	1.00	19.62	F	S
	ATOM	5398	CE	MET	F	151	-2.242	41.671	35.410	1.00	8.63	F	C
	ATOM	5399	C	MET	F	151	-3.580	39.092	31.407	1.00	17.69	F	C
40	ATOM	5400	O	MET	F	151	-4.482	38.367	31.846	1.00	18.11	F	O
	ATOM	5401	N	LEU	F	152	-3.163	39.036	30.141	1.00	18.58	F	N
	ATOM	5402	CA	LEU	F	152	-3.760	38.124	29.170	1.00	17.83	F	C
	ATOM	5403	CB	LEU	F	152	-3.048	38.268	27.820	1.00	21.82	F	C
	ATOM	5404	CG	LEU	F	152	-3.123	39.639	27.130	1.00	26.58	F	C
45	ATOM	5405	CD1	LEU	F	152	-2.822	39.462	25.643	1.00	25.89	F	C
	ATOM	5406	CD2	LEU	F	152	-4.508	40.271	27.322	1.00	28.33	F	C
	ATOM	5407	C	LEU	F	152	-3.714	36.666	29.608	1.00	16.23	F	C
	ATOM	5408	O	LEU	F	152	-4.701	35.934	29.493	1.00	17.14	F	O
	ATOM	5409	N	LYS	F	153	-2.564	36.240	30.111	1.00	15.73	F	N
50	ATOM	5410	CA	LYS	F	153	-2.397	34.864	30.540	1.00	17.51	F	C
	ATOM	5411	CB	LYS	F	153	-0.900	34.587	30.728	1.00	19.95	F	C
	ATOM	5412	CG	LYS	F	153	-0.488	33.984	32.047	1.00	27.18	F	C
	ATOM	5413	CD	LYS	F	153	0.962	34.327	32.382	1.00	30.13	F	C
	ATOM	5414	CE	LYS	F	153	1.863	34.168	31.175	1.00	33.03	F	C
55	ATOM	5415	NZ	LYS	F	153	3.302	34.135	31.567	1.00	38.90	F	N
	ATOM	5416	C	LYS	F	153	-3.215	34.477	31.781	1.00	18.69	F	C
	ATOM	5417	O	LYS	F	153	-3.376	33.288	32.070	1.00	19.52	F	O
	ATOM	5418	N	SER	F	154	-3.751	35.468	32.496	1.00	17.06	F	N
	ATOM	5419	CA	SER	F	154	-4.561	35.191	33.683	1.00	17.60	F	C
60	ATOM	5420	CB	SER	F	154	-3.987	35.899	34.923	1.00	17.65	F	C
	ATOM	5421	OG	SER	F	154	-3.984	37.316	34.787	1.00	19.27	F	O
	ATOM	5422	C	SER	F	154	-6.006	35.613	33.466	1.00	18.27	F	C
	ATOM	5423	O	SER	F	154	-6.812	35.599	34.396	1.00	19.42	F	O
	ATOM	5424	N	PHE	F	155	-6.329	35.987	32.231	1.00	17.51	F	N
65	ATOM	5425	CA	PHE	F	155	-7.684	36.404	31.872	1.00	16.50	F	C
	ATOM	5426	CB	PHE	F	155	-8.676	35.275	32.161	1.00	20.03	F	C
	ATOM	5427	CG	PHE	F	155	-8.446	34.056	31.326	1.00	21.80	F	C
	ATOM	5428	CD1	PHE	F	155	-9.145	33.870	30.140	1.00	22.70	F	C

	ATOM	5429	CD2	PHE	F	155	-7.474	33.122	31.690	1.00	23.44	F	C
	ATOM	5430	CE1	PHE	F	155	-8.870	32.764	29.321	1.00	24.21	F	C
	ATOM	5431	CE2	PHE	F	155	-7.190	32.014	30.877	1.00	21.51	F	C
5	ATOM	5432	CZ	PHE	F	155	-7.888	31.839	29.692	1.00	23.28	F	C
	ATOM	5433	C	PHE	F	155	-8.139	37.680	32.560	1.00	15.17	F	C
	ATOM	5434	O	PHE	F	155	-9.322	37.850	32.882	1.00	13.47	F	O
	ATOM	5435	N	GLN	F	156	-7.190	38.575	32.786	1.00	11.28	F	N
	ATOM	5436	CA	GLN	F	156	-7.493	39.844	33.404	1.00	10.62	F	C
10	ATOM	5437	CB	GLN	F	156	-6.509	40.101	34.530	1.00	10.41	F	C
	ATOM	5438	CG	GLN	F	156	-6.687	39.116	35.689	1.00	10.31	F	C
	ATOM	5439	CD	GLN	F	156	-6.008	39.598	36.944	1.00	10.74	F	C
	ATOM	5440	OE1	GLN	F	156	-4.807	39.386	37.135	1.00	13.18	F	O
	ATOM	5441	NE2	GLN	F	156	-6.764	40.272	37.804	1.00	7.92	F	N
	ATOM	5442	C	GLN	F	156	-7.393	40.888	32.294	1.00	14.28	F	C
15	ATOM	5443	O	GLN	F	156	-6.868	40.597	31.224	1.00	16.37	F	O
	ATOM	5444	N	ARG	F	157	-7.877	42.100	32.536	1.00	15.44	F	N
	ATOM	5445	CA	ARG	F	157	-7.885	43.129	31.499	1.00	14.57	F	C
	ATOM	5446	CB	ARG	F	157	-9.093	44.036	31.728	1.00	12.85	F	C
20	ATOM	5447	CG	ARG	F	157	-10.382	43.245	31.938	1.00	15.10	F	C
	ATOM	5448	CD	ARG	F	157	-11.543	44.105	32.449	1.00	12.60	F	C
	ATOM	5449	NE	ARG	F	157	-11.320	44.577	33.809	1.00	11.23	F	N
	ATOM	5450	CZ	ARG	F	157	-12.198	45.284	34.510	1.00	11.19	F	C
	ATOM	5451	NH1	ARG	F	157	-11.911	45.673	35.739	1.00	11.39	F	N
25	ATOM	5452	NH2	ARG	F	157	-13.367	45.605	33.991	1.00	13.34	F	N
	ATOM	5453	C	ARG	F	157	-6.651	43.989	31.277	1.00	15.38	F	C
	ATOM	5454	O	ARG	F	157	-5.923	44.331	32.215	1.00	16.76	F	O
	ATOM	5455	N	PHE	F	158	-6.416	44.307	30.005	1.00	15.79	F	N
	ATOM	5456	CA	PHE	F	158	-5.323	45.188	29.561	1.00	13.85	F	C
30	ATOM	5457	CB	PHE	F	158	-4.089	44.388	29.144	1.00	11.34	F	C
	ATOM	5458	CG	PHE	F	158	-2.883	45.247	28.878	1.00	13.88	F	C
	ATOM	5459	CD1	PHE	F	158	-2.527	45.600	27.572	1.00	10.07	F	C
	ATOM	5460	CD2	PHE	F	158	-2.135	45.749	29.924	1.00	12.69	F	C
	ATOM	5461	CE1	PHE	F	158	-1.450	46.443	27.313	1.00	9.58	F	C
35	ATOM	5462	CE2	PHE	F	158	-1.046	46.601	29.678	1.00	15.73	F	C
	ATOM	5463	CZ	PHE	F	158	-0.704	46.949	28.361	1.00	13.17	F	C
	ATOM	5464	C	PHE	F	158	-5.942	45.943	28.363	1.00	15.19	F	C
	ATOM	5465	O	PHE	F	158	-6.478	45.319	27.452	1.00	14.12	F	O
	ATOM	5466	N	PRO	F	159	-5.891	47.292	28.365	1.00	15.48	F	N
40	ATOM	5467	CD	PRO	F	159	-5.233	48.139	29.379	1.00	14.75	F	C
	ATOM	5468	CA	PRO	F	159	-6.472	48.097	27.278	1.00	15.30	F	C
	ATOM	5469	CB	PRO	F	159	-6.350	49.535	27.789	1.00	13.46	F	C
	ATOM	5470	CG	PRO	F	159	-5.179	49.492	28.716	1.00	16.64	F	C
	ATOM	5471	C	PRO	F	159	-5.865	47.910	25.879	1.00	15.75	F	C
45	ATOM	5472	O	PRO	F	159	-4.666	47.662	25.716	1.00	14.53	F	O
	ATOM	5473	N	LYS	F	160	-6.724	48.038	24.874	1.00	16.54	F	N
	ATOM	5474	CA	LYS	F	160	-6.345	47.865	23.478	1.00	17.18	F	C
	ATOM	5475	CB	LYS	F	160	-7.596	47.860	22.595	1.00	19.00	F	C
	ATOM	5476	CG	LYS	F	160	-8.443	46.615	22.762	1.00	24.89	F	C
	ATOM	5477	CD	LYS	F	160	-9.775	46.728	22.017	1.00	33.23	F	C
50	ATOM	5478	CE	LYS	F	160	-10.589	47.944	22.482	1.00	37.71	F	C
	ATOM	5479	NZ	LYS	F	160	-11.518	47.633	23.609	1.00	37.86	F	N
	ATOM	5480	C	LYS	F	160	-5.372	48.898	22.936	1.00	16.14	F	C
	ATOM	5481	O	LYS	F	160	-4.364	48.536	22.319	1.00	15.10	F	O
55	ATOM	5482	N	THR	F	161	-5.632	50.181	23.169	1.00	14.47	F	N
	ATOM	5483	CA	THR	F	161	-4.733	51.148	22.581	1.00	16.63	F	C
	ATOM	5484	CB	THR	F	161	-5.195	52.601	22.811	1.00	15.74	F	C
	ATOM	5485	OG1	THR	F	161	-4.413	53.217	23.821	1.00	28.67	F	O
	ATOM	5486	CG2	THR	F	161	-6.634	52.640	23.155	1.00	14.49	F	C
60	ATOM	5487	C	THR	F	161	-3.269	50.924	22.912	1.00	18.88	F	C
	ATOM	5488	O	THR	F	161	-2.427	51.001	22.014	1.00	21.25	F	O
	ATOM	5489	N	PRO	F	162	-2.922	50.642	24.185	1.00	19.86	F	N
	ATOM	5490	CD	PRO	F	162	-3.702	50.561	25.432	1.00	20.85	F	C
	ATOM	5491	CA	PRO	F	162	-1.487	50.418	24.419	1.00	17.90	F	C
65	ATOM	5492	CB	PRO	F	162	-1.377	50.220	25.935	1.00	16.75	F	C
	ATOM	5493	CG	PRO	F	162	-2.656	50.719	26.497	1.00	17.13	F	C
	ATOM	5494	C	PRO	F	162	-0.994	49.177	23.653	1.00	15.49	F	C
	ATOM	5495	O	PRO	F	162	0.135	49.150	23.195	1.00	16.56	F	O
	ATOM	5496	N	SER	F	163	-1.835	48.149	23.534	1.00	15.26	F	N

	ATOM	5497	CA	SER F 163	-1.461	46.923	22.813	1.00	16.81	F	C
	ATOM	5498	CB	SER F 163	-2.579	45.892	22.895	1.00	17.53	F	C
	ATOM	5499	OG	SER F 163	-2.530	45.196	24.128	1.00	24.52	F	O
5	ATOM	5500	C	SER F 163	-1.185	47.242	21.342	1.00	18.26	F	C
	ATOM	5501	O	SER F 163	-0.190	46.789	20.773	1.00	17.07	F	O
	ATOM	5502	N	LYS F 164	-2.064	48.035	20.736	1.00	18.75	F	N
	ATOM	5503	CA	LYS F 164	-1.890	48.431	19.343	1.00	20.59	F	C
	ATOM	5504	CB	LYS F 164	-2.963	49.439	18.938	1.00	16.84	F	C
10	ATOM	5505	CG	LYS F 164	-4.315	48.798	18.721	1.00	17.99	F	C
	ATOM	5506	CD	LYS F 164	-5.383	49.844	18.540	1.00	20.31	F	C
	ATOM	5507	CE	LYS F 164	-6.721	49.177	18.331	1.00	25.84	F	C
	ATOM	5508	NZ	LYS F 164	-7.778	50.188	18.053	1.00	31.32	F	N
	ATOM	5509	C	LYS F 164	-0.504	49.039	19.160	1.00	21.99	F	C
	ATOM	5510	O	LYS F 164	0.210	48.703	18.212	1.00	23.96	F	O
15	ATOM	5511	N	TYR F 165	-0.112	49.932	20.064	1.00	21.05	F	N
	ATOM	5512	CA	TYR F 165	1.211	50.534	19.964	1.00	20.44	F	C
	ATOM	5513	CB	TYR F 165	1.373	51.653	20.997	1.00	18.45	F	C
	ATOM	5514	CG	TYR F 165	0.886	52.995	20.501	1.00	18.86	F	C
	ATOM	5515	CD1	TYR F 165	1.670	53.765	19.651	1.00	15.67	F	C
20	ATOM	5516	CE1	TYR F 165	1.211	54.990	19.154	1.00	16.76	F	C
	ATOM	5517	CD2	TYR F 165	-0.378	53.480	20.856	1.00	19.26	F	C
	ATOM	5518	CE2	TYR F 165	-0.850	54.712	20.364	1.00	19.33	F	C
	ATOM	5519	CZ	TYR F 165	-0.041	55.452	19.509	1.00	18.66	F	C
	ATOM	5520	OH	TYR F 165	-0.489	56.632	18.961	1.00	24.89	F	O
25	ATOM	5521	C	TYR F 165	2.327	49.493	20.150	1.00	21.70	F	C
	ATOM	5522	O	TYR F 165	3.384	49.591	19.524	1.00	24.23	F	O
	ATOM	5523	N	LEU F 166	2.103	48.502	21.010	1.00	21.48	F	N
	ATOM	5524	CA	LEU F 166	3.117	47.478	21.253	1.00	22.03	F	C
	ATOM	5525	CB	LEU F 166	2.685	46.552	22.417	1.00	22.81	F	C
30	ATOM	5526	CG	LEU F 166	2.609	47.154	23.844	1.00	23.53	F	C
	ATOM	5527	CD1	LEU F 166	2.047	46.128	24.806	1.00	20.37	F	C
	ATOM	5528	CD2	LEU F 166	3.992	47.614	24.319	1.00	17.34	F	C
	ATOM	5529	C	LEU F 166	3.320	46.668	19.970	1.00	21.07	F	C
	ATOM	5530	O	LEU F 166	4.448	46.388	19.559	1.00	21.15	F	O
35	ATOM	5531	N	ARG F 167	2.214	46.295	19.339	1.00	19.56	F	N
	ATOM	5532	CA	ARG F 167	2.273	45.527	18.103	1.00	21.20	F	C
	ATOM	5533	CB	ARG F 167	0.857	45.192	17.625	1.00	17.15	F	C
	ATOM	5534	CG	ARG F 167	0.084	44.214	18.533	1.00	21.82	F	C
	ATOM	5535	CD	ARG F 167	0.835	42.894	18.822	1.00	20.10	F	C
40	ATOM	5536	NE	ARG F 167	1.787	42.999	19.940	1.00	22.65	F	N
	ATOM	5537	CZ	ARG F 167	1.459	43.041	21.239	1.00	19.33	F	C
	ATOM	5538	NH1	ARG F 167	0.193	42.985	21.627	1.00	16.84	F	N
	ATOM	5539	NH2	ARG F 167	2.407	43.166	22.159	1.00	15.73	F	N
	ATOM	5540	C	ARG F 167	3.039	46.325	17.036	1.00	22.33	F	C
45	ATOM	5541	O	ARG F 167	3.939	45.787	16.395	1.00	22.03	F	O
	ATOM	5542	N	SER F 168	2.694	47.607	16.872	1.00	24.54	F	N
	ATOM	5543	CA	SER F 168	3.351	48.486	15.896	1.00	24.93	F	C
	ATOM	5544	CB	SER F 168	2.821	49.903	15.989	1.00	25.65	F	C
	ATOM	5545	OG	SER F 168	1.464	49.943	15.608	1.00	39.32	F	O
50	ATOM	5546	C	SER F 168	4.830	48.555	16.153	1.00	26.66	F	C
	ATOM	5547	O	SER F 168	5.644	48.453	15.237	1.00	27.96	F	O
	ATOM	5548	N	ILE F 169	5.182	48.771	17.409	1.00	24.77	F	N
	ATOM	5549	CA	ILE F 169	6.578	48.851	17.764	1.00	26.00	F	C
	ATOM	5550	CB	ILE F 169	6.734	49.129	19.270	1.00	27.33	F	C
55	ATOM	5551	CG2	ILE F 169	8.129	48.717	19.745	1.00	24.04	F	C
	ATOM	5552	CG1	ILE F 169	6.453	50.612	19.535	1.00	25.37	F	C
	ATOM	5553	CD1	ILE F 169	6.331	50.954	20.982	1.00	24.97	F	C
	ATOM	5554	C	ILE F 169	7.276	47.550	17.400	1.00	26.53	F	C
	ATOM	5555	O	ILE F 169	8.435	47.556	17.005	1.00	26.07	F	O
60	ATOM	5556	N	GLU F 170	6.562	46.437	17.531	1.00	29.35	F	N
	ATOM	5557	CA	GLU F 170	7.124	45.127	17.218	1.00	34.11	F	C
	ATOM	5558	CB	GLU F 170	6.284	44.022	17.862	1.00	32.28	F	C
	ATOM	5559	CG	GLU F 170	6.528	43.867	19.337	1.00	35.23	F	C
	ATOM	5560	CD	GLU F 170	5.322	43.306	20.062	1.00	37.29	F	C
65	ATOM	5561	OE1	GLU F 170	5.187	43.553	21.285	1.00	35.24	F	O
	ATOM	5562	OE2	GLU F 170	4.510	42.620	19.399	1.00	37.58	F	O
	ATOM	5563	C	GLU F 170	7.216	44.866	15.714	1.00	36.62	F	C
	ATOM	5564	O	GLU F 170	8.019	44.046	15.275	1.00	37.88	F	O

	ATOM	5565	N	GLY	F	171	6.391	45.555	14.932	1.00	38.64	F	N
	ATOM	5566	CA	GLY	F	171	6.407	45.355	13.497	1.00	40.10	F	C
	ATOM	5567	C	GLY	F	171	5.326	44.390	13.045	1.00	42.38	F	C
5	ATOM	5568	O	GLY	F	171	5.348	43.911	11.911	1.00	45.43	F	O
	ATOM	5569	N	THR	F	172	4.378	44.096	13.927	1.00	43.11	F	N
	ATOM	5570	CA	THR	F	172	3.300	43.187	13.583	1.00	44.39	F	C
	ATOM	5571	CB	THR	F	172	3.223	42.033	14.593	1.00	43.98	F	C
	ATOM	5572	OG1	THR	F	172	2.400	42.416	15.697	1.00	50.06	F	O
10	ATOM	5573	CG2	THR	F	172	4.602	41.702	15.117	1.00	42.72	F	C
	ATOM	5574	C	THR	F	172	1.973	43.945	13.525	1.00	46.14	F	C
	ATOM	5575	O	THR	F	172	1.881	45.093	13.965	1.00	44.19	F	O
	ATOM	5576	N	ALA	F	173	0.954	43.311	12.951	1.00	49.36	F	N
	ATOM	5577	CA	ALA	F	173	-0.368	43.928	12.818	1.00	50.54	F	C
	ATOM	5578	CB	ALA	F	173	-1.060	43.444	11.540	1.00	51.18	F	C
15	ATOM	5579	C	ALA	F	173	-1.209	43.583	14.032	1.00	50.20	F	C
	ATOM	5580	O	ALA	F	173	-1.126	42.472	14.567	1.00	51.57	F	O
	ATOM	5581	N	TRP	F	174	-2.027	44.534	14.463	1.00	50.32	F	N
	ATOM	5582	CA	TRP	F	174	-2.852	44.324	15.639	1.00	48.79	F	C
	ATOM	5583	CB	TRP	F	174	-3.289	45.665	16.225	1.00	47.34	F	C
20	ATOM	5584	CG	TRP	F	174	-4.060	45.491	17.488	1.00	45.48	F	C
	ATOM	5585	CD2	TRP	F	174	-5.470	45.643	17.646	1.00	45.14	F	C
	ATOM	5586	CE2	TRP	F	174	-5.776	45.321	18.989	1.00	41.99	F	C
	ATOM	5587	CE3	TRP	F	174	-6.509	46.022	16.783	1.00	47.03	F	C
	ATOM	5588	CD1	TRP	F	174	-3.574	45.095	18.706	1.00	42.12	F	C
25	ATOM	5589	NE1	TRP	F	174	-4.600	44.990	19.610	1.00	39.76	F	N
	ATOM	5590	CZ2	TRP	F	174	-7.083	45.364	19.492	1.00	44.54	F	C
	ATOM	5591	CZ3	TRP	F	174	-7.813	46.066	17.282	1.00	47.02	F	C
	ATOM	5592	CH2	TRP	F	174	-8.086	45.738	18.628	1.00	46.15	F	C
	ATOM	5593	C	TRP	F	174	-4.070	43.441	15.427	1.00	48.66	F	C
30	ATOM	5594	O	TRP	F	174	-4.903	43.697	14.565	1.00	49.03	F	O
	ATOM	5595	N	LYS	F	175	-4.160	42.410	16.258	1.00	50.58	F	N
	ATOM	5596	CA	LYS	F	175	-5.248	41.441	16.234	1.00	53.41	F	C
	ATOM	5597	CB	LYS	F	175	-4.836	40.200	17.022	1.00	54.42	F	C
	ATOM	5598	CG	LYS	F	175	-3.591	40.408	17.864	1.00	55.26	F	C
35	ATOM	5599	CD	LYS	F	175	-2.851	39.089	18.059	1.00	58.53	F	C
	ATOM	5600	CE	LYS	F	175	-2.472	38.449	16.720	1.00	59.04	F	C
	ATOM	5601	NZ	LYS	F	175	-3.519	37.504	16.200	1.00	57.96	F	N
	ATOM	5602	C	LYS	F	175	-6.559	41.963	16.816	1.00	54.45	F	C
	ATOM	5603	O	LYS	F	175	-7.054	43.028	16.437	1.00	56.86	F	O
40	ATOM	5604	N	ALA	F	176	-7.114	41.184	17.739	1.00	54.17	F	N
	ATOM	5605	CA	ALA	F	176	-8.366	41.512	18.404	1.00	53.76	F	C
	ATOM	5606	CB	ALA	F	176	-9.445	41.855	17.369	1.00	49.41	F	C
	ATOM	5607	C	ALA	F	176	-8.779	40.286	19.215	1.00	55.40	F	C
	ATOM	5608	O	ALA	F	176	-9.886	40.233	19.756	1.00	58.76	F	O
45	ATOM	5609	N	ASN	F	177	-7.880	39.305	19.299	1.00	55.53	F	N
	ATOM	5610	CA	ASN	F	177	-8.139	38.058	20.030	1.00	55.80	F	C
	ATOM	5611	CB	ASN	F	177	-6.814	37.350	20.348	1.00	57.18	F	C
	ATOM	5612	CG	ASN	F	177	-5.913	38.177	21.265	1.00	60.85	F	C
	ATOM	5613	OD1	ASN	F	177	-5.497	39.288	20.916	1.00	63.93	F	O
50	ATOM	5614	ND2	ASN	F	177	-5.610	37.637	22.443	1.00	59.78	F	N
	ATOM	5615	C	ASN	F	177	-8.936	38.258	21.324	1.00	54.32	F	C
	ATOM	5616	O	ASN	F	177	-8.455	38.894	22.265	1.00	54.01	F	O
	ATOM	5617	N	GLU	F	178	-10.148	37.703	21.359	1.00	52.82	F	N
	ATOM	5618	CA	GLU	F	178	-11.027	37.812	22.520	1.00	50.57	F	C
55	ATOM	5619	CB	GLU	F	178	-12.474	38.033	22.062	1.00	51.12	F	C
	ATOM	5620	CG	GLU	F	178	-12.767	39.440	21.571	1.00	54.04	F	C
	ATOM	5621	CD	GLU	F	178	-12.269	40.518	22.533	1.00	58.47	F	C
	ATOM	5622	OE1	GLU	F	178	-11.117	40.415	23.008	1.00	60.02	F	O
	ATOM	5623	OE2	GLU	F	178	-13.028	41.475	22.812	1.00	59.36	F	O
60	ATOM	5624	C	GLU	F	178	-10.955	36.575	23.413	1.00	50.11	F	C
	ATOM	5625	O	GLU	F	178	-11.700	36.457	24.390	1.00	50.60	F	O
	ATOM	5626	N	SER	F	179	-10.050	35.659	23.079	1.00	48.31	F	N
	ATOM	5627	CA	SER	F	179	-9.880	34.423	23.836	1.00	45.36	F	C
	ATOM	5628	CB	SER	F	179	-8.875	33.506	23.126	1.00	43.42	F	C
65	ATOM	5629	OG	SER	F	179	-7.888	34.256	22.435	1.00	45.34	F	O
	ATOM	5630	C	SER	F	179	-9.431	34.639	25.283	1.00	44.43	F	C
	ATOM	5631	O	SER	F	179	-9.893	33.934	26.182	1.00	44.23	F	O
	ATOM	5632	N	SER	F	180	-8.541	35.610	25.502	1.00	41.30	F	N

	ATOM	5633	CA	SER	F	180	-8.005	35.899	26.839	1.00	40.04	F	C
	ATOM	5634	CB	SER	F	180	-6.604	36.494	26.721	1.00	40.76	F	C
	ATOM	5635	OG	SER	F	180	-5.841	35.803	25.752	1.00	42.68	F	O
	ATOM	5636	C	SER	F	180	-8.857	36.839	27.678	1.00	38.87	F	C
5	ATOM	5637	O	SER	F	180	-8.440	37.295	28.743	1.00	38.34	F	O
	ATOM	5638	N	TYR	F	181	-10.052	37.123	27.194	1.00	37.48	F	N
	ATOM	5639	CA	TYR	F	181	-10.962	38.017	27.881	1.00	36.93	F	C
	ATOM	5640	CB	TYR	F	181	-12.119	38.337	26.948	1.00	42.24	F	C
	ATOM	5641	CG	TYR	F	181	-12.219	39.773	26.544	1.00	46.93	F	C
10	ATOM	5642	CD1	TYR	F	181	-13.333	40.533	26.904	1.00	51.01	F	C
	ATOM	5643	CE1	TYR	F	181	-13.461	41.862	26.502	1.00	55.45	F	C
	ATOM	5644	CD2	TYR	F	181	-11.223	40.370	25.773	1.00	48.15	F	C
	ATOM	5645	CE2	TYR	F	181	-11.332	41.702	25.359	1.00	52.37	F	C
	ATOM	5646	CZ	TYR	F	181	-12.457	42.446	25.726	1.00	56.70	F	C
15	ATOM	5647	OH	TYR	F	181	-12.585	43.767	25.323	1.00	59.38	F	O
	ATOM	5648	C	TYR	F	181	-11.529	37.407	29.156	1.00	34.00	F	C
	ATOM	5649	O	TYR	F	181	-11.792	36.206	29.206	1.00	33.02	F	O
	ATOM	5650	N	PRO	F	182	-11.699	38.220	30.213	1.00	32.54	F	N
	ATOM	5651	CD	PRO	F	182	-11.333	39.642	30.338	1.00	31.47	F	C
20	ATOM	5652	CA	PRO	F	182	-12.265	37.684	31.461	1.00	32.76	F	C
	ATOM	5653	CB	PRO	F	182	-12.187	38.863	32.438	1.00	32.20	F	C
	ATOM	5654	CG	PRO	F	182	-12.074	40.081	31.570	1.00	30.52	F	C
	ATOM	5655	C	PRO	F	182	-13.721	37.266	31.191	1.00	32.68	F	C
	ATOM	5656	O	PRO	F	182	-14.383	37.863	30.334	1.00	34.66	F	O
25	ATOM	5657	N	VAL	F	183	-14.222	36.252	31.898	1.00	30.13	F	N
	ATOM	5658	CA	VAL	F	183	-15.596	35.800	31.687	1.00	25.07	F	C
	ATOM	5659	CB	VAL	F	183	-15.646	34.275	31.398	1.00	26.25	F	C
	ATOM	5660	CG1	VAL	F	183	-17.072	33.828	31.175	1.00	25.71	F	C
	ATOM	5661	CG2	VAL	F	183	-14.810	33.942	30.191	1.00	23.63	F	C
30	ATOM	5662	C	VAL	F	183	-16.459	36.090	32.907	1.00	25.49	F	C
	ATOM	5663	O	VAL	F	183	-16.373	35.383	33.903	1.00	25.21	F	O
	ATOM	5664	N	PHE	F	184	-17.280	37.135	32.833	1.00	26.71	F	N
	ATOM	5665	CA	PHE	F	184	-18.170	37.500	33.934	1.00	29.50	F	C
	ATOM	5666	CB	PHE	F	184	-18.513	38.993	33.889	1.00	34.39	F	C
35	ATOM	5667	CG	PHE	F	184	-17.352	39.890	34.196	1.00	42.05	F	C
	ATOM	5668	CD1	PHE	F	184	-17.241	40.496	35.441	1.00	44.38	F	C
	ATOM	5669	CD2	PHE	F	184	-16.348	40.106	33.248	1.00	43.27	F	C
	ATOM	5670	CE1	PHE	F	184	-16.142	41.308	35.739	1.00	47.71	F	C
	ATOM	5671	CE2	PHE	F	184	-15.249	40.913	33.537	1.00	43.92	F	C
40	ATOM	5672	CZ	PHE	F	184	-15.145	41.514	34.782	1.00	44.21	F	C
	ATOM	5673	C	PHE	F	184	-19.442	36.702	33.760	1.00	30.48	F	C
	ATOM	5674	O	PHE	F	184	-19.895	36.508	32.628	1.00	31.58	F	O
	ATOM	5675	N	THR	F	185	-20.040	36.232	34.849	1.00	28.66	F	N
	ATOM	5676	CA	THR	F	185	-21.263	35.474	34.658	1.00	29.06	F	C
45	ATOM	5677	CB	THR	F	185	-21.726	34.731	35.979	1.00	28.13	F	C
	ATOM	5678	OG1	THR	F	185	-22.960	35.273	36.454	1.00	33.98	F	O
	ATOM	5679	CG2	THR	F	185	-20.677	34.816	37.037	1.00	22.22	F	C
	ATOM	5680	C	THR	F	185	-22.348	36.397	34.072	1.00	28.27	F	C
	ATOM	5681	O	THR	F	185	-22.447	37.578	34.430	1.00	25.72	F	O
50	ATOM	5682	N	PRO	F	186	-23.135	35.876	33.108	1.00	29.42	F	N
	ATOM	5683	CD	PRO	F	186	-23.021	34.507	32.575	1.00	26.47	F	C
	ATOM	5684	CA	PRO	F	186	-24.214	36.628	32.444	1.00	30.03	F	C
	ATOM	5685	CB	PRO	F	186	-24.811	35.626	31.450	1.00	25.11	F	C
	ATOM	5686	CG	PRO	F	186	-24.334	34.304	31.892	1.00	29.83	F	C
55	ATOM	5687	C	PRO	F	186	-25.266	37.163	33.393	1.00	28.87	F	C
	ATOM	5688	O	PRO	F	186	-25.575	36.515	34.387	1.00	33.01	F	O
	ATOM	5689	N	ALA	F	187	-25.800	38.345	33.092	1.00	27.36	F	N
	ATOM	5690	CA	ALA	F	187	-26.839	38.953	33.912	1.00	27.86	F	C
	ATOM	5691	CB	ALA	F	187	-27.299	40.258	33.286	1.00	24.56	F	C
60	ATOM	5692	C	ALA	F	187	-28.010	37.977	33.992	1.00	30.96	F	C
	ATOM	5693	O	ALA	F	187	-28.348	37.323	33.006	1.00	29.20	F	O
	ATOM	5694	N	LEU	F	188	-28.628	37.832	35.158	1.00	34.95	F	N
	ATOM	5695	CA	LEU	F	188	-29.746	36.918	35.186	1.00	37.91	F	C
	ATOM	5696	CB	LEU	F	188	-29.995	36.344	36.590	1.00	38.54	F	C
65	ATOM	5697	CG	LEU	F	188	-29.985	37.152	37.875	1.00	40.39	F	C
	ATOM	5698	CD1	LEU	F	188	-31.386	37.127	38.494	1.00	44.12	F	C
	ATOM	5699	CD2	LEU	F	188	-28.993	36.541	38.837	1.00	38.07	F	C
	ATOM	5700	C	LEU	F	188	-30.941	37.696	34.654	1.00	39.12	F	C

	ATOM	5701	O	LEU	F	188	-31.001	38.921	34.787	1.00	36.28	F	O
	ATOM	5702	N	LYS	F	189	-31.857	36.987	34.003	1.00	39.79	F	N
	ATOM	5703	CA	LYS	F	189	-33.038	37.605	33.427	1.00	41.63	F	C
5	ATOM	5704	CB	LYS	F	189	-33.827	36.562	32.638	1.00	39.87	F	C
	ATOM	5705	CG	LYS	F	189	-32.944	35.654	31.809	1.00	42.68	F	C
	ATOM	5706	CD	LYS	F	189	-32.833	36.150	30.383	1.00	46.01	F	C
	ATOM	5707	CE	LYS	F	189	-31.384	36.381	29.980	1.00	49.72	F	C
	ATOM	5708	NZ	LYS	F	189	-31.095	35.913	28.590	1.00	52.21	F	N
10	ATOM	5709	C	LYS	F	189	-33.924	38.253	34.490	1.00	43.95	F	C
	ATOM	5710	O	LYS	F	189	-33.742	38.042	35.691	1.00	41.15	F	O
	ATOM	5711	N	LYS	F	190	-34.865	39.072	34.035	1.00	48.16	F	N
	ATOM	5712	CA	LYS	F	190	-35.806	39.747	34.924	1.00	50.93	F	C
	ATOM	5713	CB	LYS	F	190	-36.841	40.513	34.093	1.00	54.62	F	C
	ATOM	5714	CG	LYS	F	190	-37.752	41.446	34.883	1.00	56.68	F	C
15	ATOM	5715	CD	LYS	F	190	-39.244	41.186	34.582	1.00	61.20	F	C
	ATOM	5716	CE	LYS	F	190	-39.577	41.212	33.072	1.00	61.39	F	C
	ATOM	5717	NZ	LYS	F	190	-40.471	40.084	32.654	1.00	60.19	F	N
	ATOM	5718	C	LYS	F	190	-36.492	38.667	35.754	1.00	52.09	F	C
20	ATOM	5719	O	LYS	F	190	-37.178	37.789	35.217	1.00	53.66	F	O
	ATOM	5720	N	GLY	F	191	-36.293	38.720	37.063	1.00	51.78	F	N
	ATOM	5721	CA	GLY	F	191	-36.893	37.718	37.923	1.00	53.58	F	C
	ATOM	5722	C	GLY	F	191	-36.494	36.312	37.503	1.00	54.64	F	C
	ATOM	5723	O	GLY	F	191	-37.255	35.594	36.809	1.00	57.64	F	O
25	ATOM	5724	N	GLU	F	192	-35.279	35.935	37.889	1.00	48.37	F	N
	ATOM	5725	CA	GLU	F	192	-34.757	34.610	37.599	1.00	44.78	F	C
	ATOM	5726	CB	GLU	F	192	-33.705	34.651	36.483	1.00	42.40	F	C
	ATOM	5727	CG	GLU	F	192	-33.214	33.278	36.042	1.00	40.40	F	C
	ATOM	5728	CD	GLU	F	192	-31.946	33.357	35.225	1.00	39.76	F	C
30	ATOM	5729	OE1	GLU	F	192	-31.298	32.310	35.014	1.00	39.34	F	O
	ATOM	5730	OE2	GLU	F	192	-31.598	34.474	34.795	1.00	38.61	F	O
	ATOM	5731	C	GLU	F	192	-34.124	34.183	38.903	1.00	41.17	F	C
	ATOM	5732	O	GLU	F	192	-33.543	35.004	39.603	1.00	39.51	F	O
	ATOM	5733	N	ASP	F	193	-34.262	32.910	39.245	1.00	38.15	F	N
35	ATOM	5734	CA	ASP	F	193	-33.686	32.402	40.470	1.00	31.46	F	C
	ATOM	5735	CB	ASP	F	193	-34.040	30.926	40.655	1.00	35.17	F	C
	ATOM	5736	CG	ASP	F	193	-33.489	30.369	41.935	1.00	36.30	F	C
	ATOM	5737	OD1	ASP	F	193	-32.738	29.381	41.882	1.00	45.55	F	O
	ATOM	5738	OD2	ASP	F	193	-33.794	30.927	42.999	1.00	38.94	F	O
40	ATOM	5739	C	ASP	F	193	-32.171	32.575	40.435	1.00	28.54	F	C
	ATOM	5740	O	ASP	F	193	-31.479	31.999	39.594	1.00	26.28	F	O
	ATOM	5741	N	PRO	F	194	-31.634	33.378	41.364	1.00	26.35	F	N
	ATOM	5742	CD	PRO	F	194	-32.347	34.116	42.414	1.00	26.70	F	C
	ATOM	5743	CA	PRO	F	194	-30.191	33.616	41.421	1.00	25.17	F	C
45	ATOM	5744	CB	PRO	F	194	-30.039	34.790	42.394	1.00	24.42	F	C
	ATOM	5745	CG	PRO	F	194	-31.412	35.236	42.731	1.00	25.03	F	C
	ATOM	5746	C	PRO	F	194	-29.412	32.417	41.888	1.00	21.84	F	C
	ATOM	5747	O	PRO	F	194	-28.195	32.403	41.791	1.00	22.80	F	O
	ATOM	5748	N	PHE	F	195	-30.107	31.401	42.379	1.00	22.57	F	N
50	ATOM	5749	CA	PHE	F	195	-29.418	30.221	42.892	1.00	24.78	F	C
	ATOM	5750	CB	PHE	F	195	-29.711	30.089	44.393	1.00	24.63	F	C
	ATOM	5751	CG	PHE	F	195	-29.481	31.367	45.158	1.00	23.46	F	C
	ATOM	5752	CD1	PHE	F	195	-28.185	31.762	45.498	1.00	20.74	F	C
	ATOM	5753	CD2	PHE	F	195	-30.542	32.212	45.469	1.00	20.09	F	C
55	ATOM	5754	CE1	PHE	F	195	-27.959	32.976	46.126	1.00	20.05	F	C
	ATOM	5755	CE2	PHE	F	195	-30.315	33.434	46.101	1.00	19.47	F	C
	ATOM	5756	CZ	PHE	F	195	-29.027	33.813	46.426	1.00	16.77	F	C
	ATOM	5757	C	PHE	F	195	-29.708	28.909	42.182	1.00	26.47	F	C
	ATOM	5758	O	PHE	F	195	-29.534	27.840	42.768	1.00	25.60	F	O
60	ATOM	5759	N	ARG	F	196	-30.124	29.002	40.919	1.00	29.59	F	N
	ATOM	5760	CA	ARG	F	196	-30.454	27.833	40.108	1.00	30.75	F	C
	ATOM	5761	CB	ARG	F	196	-30.761	28.250	38.673	1.00	29.82	F	C
	ATOM	5762	CG	ARG	F	196	-31.975	29.124	38.567	1.00	33.62	F	C
	ATOM	5763	CD	ARG	F	196	-32.300	29.450	37.133	1.00	38.96	F	C
65	ATOM	5764	NE	ARG	F	196	-32.201	28.284	36.263	1.00	40.53	F	N
	ATOM	5765	CZ	ARG	F	196	-32.727	28.223	35.046	1.00	42.38	F	C
	ATOM	5766	NH1	ARG	F	196	-33.388	29.262	34.561	1.00	41.09	F	N
	ATOM	5767	NH2	ARG	F	196	-32.590	27.126	34.315	1.00	44.27	F	N
	ATOM	5768	C	ARG	F	196	-29.329	26.829	40.108	1.00	30.98	F	C

	ATOM	5769	O	ARG	F	196	-28.158	27.184	39.994	1.00	30.42	F	O
	ATOM	5770	N	THR	F	197	-29.689	25.561	40.220	1.00	33.13	F	N
	ATOM	5771	CA	THR	F	197	-28.683	24.523	40.242	1.00	34.76	F	C
	ATOM	5772	CB	THR	F	197	-28.696	23.818	41.616	1.00	35.46	F	C
5	ATOM	5773	OG1	THR	F	197	-27.443	23.158	41.827	1.00	40.94	F	O
	ATOM	5774	CG2	THR	F	197	-29.827	22.822	41.698	1.00	33.63	F	C
	ATOM	5775	C	THR	F	197	-28.897	23.516	39.117	1.00	35.07	F	C
	ATOM	5776	O	THR	F	197	-28.229	22.488	39.063	1.00	37.30	F	O
10	ATOM	5777	N	ASP	F	198	-29.813	23.827	38.207	1.00	33.89	F	N
	ATOM	5778	CA	ASP	F	198	-30.120	22.935	37.094	1.00	36.02	F	C
	ATOM	5779	CB	ASP	F	198	-31.579	23.125	36.662	1.00	35.69	F	C
	ATOM	5780	CG	ASP	F	198	-31.893	24.559	36.236	1.00	40.09	F	C
	ATOM	5781	OD1	ASP	F	198	-31.862	25.472	37.095	1.00	38.96	F	O
	ATOM	5782	OD2	ASP	F	198	-32.187	24.774	35.039	1.00	38.66	F	O
15	ATOM	5783	C	ASP	F	198	-29.213	23.077	35.875	1.00	36.33	F	C
	ATOM	5784	O	ASP	F	198	-29.290	22.285	34.938	1.00	38.84	F	O
	ATOM	5785	N	ASN	F	199	-28.327	24.059	35.901	1.00	36.77	F	N
	ATOM	5786	CA	ASN	F	199	-27.448	24.315	34.772	1.00	36.18	F	C
	ATOM	5787	CB	ASN	F	199	-27.677	25.753	34.325	1.00	40.54	F	C
20	ATOM	5788	CG	ASN	F	199	-27.921	26.699	35.515	1.00	46.58	F	C
	ATOM	5789	OD1	ASN	F	199	-28.575	27.739	35.375	1.00	45.47	F	O
	ATOM	5790	ND2	ASN	F	199	-27.389	26.336	36.693	1.00	43.47	F	N
	ATOM	5791	C	ASN	F	199	-25.953	24.089	35.025	1.00	33.81	F	C
	ATOM	5792	O	ASN	F	199	-25.113	24.547	34.249	1.00	35.24	F	O
25	ATOM	5793	N	LEU	F	200	-25.615	23.384	36.095	1.00	30.27	F	N
	ATOM	5794	CA	LEU	F	200	-24.215	23.137	36.412	1.00	28.96	F	C
	ATOM	5795	CB	LEU	F	200	-24.068	22.790	37.905	1.00	30.70	F	C
	ATOM	5796	CG	LEU	F	200	-24.537	23.801	38.961	1.00	30.37	F	C
	ATOM	5797	CD1	LEU	F	200	-24.527	23.147	40.330	1.00	30.52	F	C
30	ATOM	5798	CD2	LEU	F	200	-23.616	25.013	38.958	1.00	29.81	F	C
	ATOM	5799	C	LEU	F	200	-23.609	22.012	35.560	1.00	28.76	F	C
	ATOM	5800	O	LEU	F	200	-24.274	21.026	35.265	1.00	27.88	F	O
	ATOM	5801	N	PRO	F	201	-22.336	22.161	35.149	1.00	28.37	F	N
	ATOM	5802	CD	PRO	F	201	-21.494	23.335	35.426	1.00	27.85	F	C
35	ATOM	5803	CA	PRO	F	201	-21.625	21.165	34.339	1.00	28.86	F	C
	ATOM	5804	CB	PRO	F	201	-20.262	21.812	34.085	1.00	27.73	F	C
	ATOM	5805	CG	PRO	F	201	-20.457	23.251	34.364	1.00	27.38	F	C
	ATOM	5806	C	PRO	F	201	-21.482	19.822	35.071	1.00	31.97	F	C
	ATOM	5807	O	PRO	F	201	-21.745	19.727	36.267	1.00	34.51	F	O
40	ATOM	5808	N	GLU	F	202	-21.057	18.789	34.354	1.00	31.86	F	N
	ATOM	5809	CA	GLU	F	202	-20.880	17.468	34.943	1.00	34.74	F	C
	ATOM	5810	CB	GLU	F	202	-20.942	16.398	33.852	1.00	41.15	F	C
	ATOM	5811	CG	GLU	F	202	-21.942	16.692	32.728	1.00	52.47	F	C
	ATOM	5812	CD	GLU	F	202	-21.856	15.686	31.561	1.00	58.23	F	C
45	ATOM	5813	OE1	GLU	F	202	-20.840	15.720	30.816	1.00	59.06	F	O
	ATOM	5814	OE2	GLU	F	202	-22.806	14.868	31.393	1.00	57.83	F	O
	ATOM	5815	C	GLU	F	202	-19.539	17.363	35.657	1.00	33.83	F	C
	ATOM	5816	O	GLU	F	202	-18.619	18.119	35.367	1.00	34.34	F	O
	ATOM	5817	N	ASN	F	203	-19.422	16.422	36.585	1.00	30.57	F	N
50	ATOM	5818	CA	ASN	F	203	-18.167	16.246	37.303	1.00	32.93	F	C
	ATOM	5819	CB	ASN	F	203	-18.369	15.340	38.530	1.00	32.97	F	C
	ATOM	5820	CG	ASN	F	203	-19.350	15.924	39.547	1.00	31.87	F	C
	ATOM	5821	OD1	ASN	F	203	-20.004	15.190	40.288	1.00	31.70	F	O
	ATOM	5822	ND2	ASN	F	203	-19.453	17.242	39.584	1.00	33.98	F	N
55	ATOM	5823	C	ASN	F	203	-17.128	15.634	36.360	1.00	31.63	F	C
	ATOM	5824	O	ASN	F	203	-17.483	14.889	35.455	1.00	32.94	F	O
	ATOM	5825	N	LEU	F	204	-15.852	15.954	36.568	1.00	31.63	F	N
	ATOM	5826	CA	LEU	F	204	-14.780	15.428	35.723	1.00	33.13	F	C
	ATOM	5827	CB	LEU	F	204	-13.973	16.566	35.093	1.00	32.36	F	C
60	ATOM	5828	CG	LEU	F	204	-14.718	17.640	34.301	1.00	32.90	F	C
	ATOM	5829	CD1	LEU	F	204	-13.778	18.819	34.090	1.00	32.07	F	C
	ATOM	5830	CD2	LEU	F	204	-15.199	17.088	32.977	1.00	28.26	F	C
	ATOM	5831	C	LEU	F	204	-13.814	14.505	36.463	1.00	34.43	F	C
	ATOM	5832	O	LEU	F	204	-12.881	13.973	35.868	1.00	35.15	F	O
65	ATOM	5833	N	GLY	F	205	-14.027	14.336	37.762	1.00	33.48	F	N
	ATOM	5834	CA	GLY	F	205	-13.173	13.463	38.543	1.00	31.78	F	C
	ATOM	5835	C	GLY	F	205	-11.673	13.540	38.323	1.00	32.52	F	C
	ATOM	5836	O	GLY	F	205	-11.003	12.508	38.416	1.00	33.93	F	O

	ATOM	5837	N	TYR	F	206	-11.133	14.723	38.032	1.00	32.26	F	N
	ATOM	5838	CA	TYR	F	206	-9.683	14.866	37.846	1.00	31.74	F	C
	ATOM	5839	CB	TYR	F	206	-9.335	16.200	37.192	1.00	35.11	F	C
5	ATOM	5840	CG	TYR	F	206	-9.776	16.343	35.761	1.00	37.90	F	C
	ATOM	5841	CD1	TYR	F	206	-9.974	15.223	34.955	1.00	39.66	F	C
	ATOM	5842	CE1	TYR	F	206	-10.361	15.358	33.623	1.00	40.68	F	C
	ATOM	5843	CD2	TYR	F	206	-9.976	17.605	35.202	1.00	36.89	F	C
	ATOM	5844	CE2	TYR	F	206	-10.361	17.750	33.879	1.00	38.69	F	C
10	ATOM	5845	CZ	TYR	F	206	-10.552	16.626	33.092	1.00	40.82	F	C
	ATOM	5846	OH	TYR	F	206	-10.924	16.770	31.772	1.00	43.75	F	O
	ATOM	5847	C	TYR	F	206	-9.035	14.849	39.223	1.00	31.85	F	C
	ATOM	5848	O	TYR	F	206	-9.716	15.014	40.232	1.00	31.04	F	O
	ATOM	5849	N	HIS	F	207	-7.720	14.668	39.270	1.00	32.98	F	N
15	ATOM	5850	CA	HIS	F	207	-7.022	14.650	40.549	1.00	33.30	F	C
	ATOM	5851	CB	HIS	F	207	-6.034	13.478	40.609	1.00	33.80	F	C
	ATOM	5852	CG	HIS	F	207	-5.460	13.253	41.974	1.00	38.20	F	C
	ATOM	5853	CD2	HIS	F	207	-6.053	12.922	43.148	1.00	39.05	F	C
	ATOM	5854	ND1	HIS	F	207	-4.119	13.416	42.255	1.00	42.46	F	N
20	ATOM	5855	CE1	HIS	F	207	-3.912	13.198	43.544	1.00	40.73	F	C
	ATOM	5856	NE2	HIS	F	207	-5.069	12.896	44.108	1.00	39.63	F	N
	ATOM	5857	C	HIS	F	207	-6.278	15.968	40.807	1.00	33.28	F	C
	ATOM	5858	O	HIS	F	207	-5.388	16.349	40.039	1.00	34.51	F	O
	ATOM	5859	N	LEU	F	208	-6.650	16.656	41.887	1.00	31.21	F	N
25	ATOM	5860	CA	LEU	F	208	-6.027	17.923	42.266	1.00	28.77	F	C
	ATOM	5861	CB	LEU	F	208	-7.055	18.853	42.897	1.00	26.23	F	C
	ATOM	5862	CG	LEU	F	208	-8.299	19.110	42.065	1.00	25.70	F	C
	ATOM	5863	CD1	LEU	F	208	-9.231	20.028	42.815	1.00	23.18	F	C
	ATOM	5864	CD2	LEU	F	208	-7.886	19.708	40.726	1.00	27.90	F	C
30	ATOM	5865	C	LEU	F	208	-4.909	17.684	43.270	1.00	30.16	F	C
	ATOM	5866	O	LEU	F	208	-5.019	16.836	44.143	1.00	32.28	F	O
	ATOM	5867	N	LYS	F	209	-3.836	18.448	43.161	1.00	31.57	F	N
	ATOM	5868	CA	LYS	F	209	-2.726	18.281	44.073	1.00	31.33	F	C
	ATOM	5869	CB	LYS	F	209	-1.917	17.059	43.658	1.00	32.77	F	C
35	ATOM	5870	CG	LYS	F	209	-0.891	16.616	44.672	1.00	34.01	F	C
	ATOM	5871	CD	LYS	F	209	-0.172	15.380	44.170	1.00	36.98	F	C
	ATOM	5872	CE	LYS	F	209	0.872	14.909	45.165	1.00	39.24	F	C
	ATOM	5873	NZ	LYS	F	209	2.052	14.276	44.484	1.00	42.61	F	N
	ATOM	5874	C	LYS	F	209	-1.837	19.521	44.095	1.00	32.70	F	C
40	ATOM	5875	O	LYS	F	209	-1.457	20.049	43.053	1.00	35.24	F	O
	ATOM	5876	N	MET	F	210	-1.513	19.982	45.293	1.00	31.38	F	N
	ATOM	5877	CA	MET	F	210	-0.671	21.148	45.454	1.00	30.96	F	C
	ATOM	5878	CB	MET	F	210	-0.669	21.563	46.923	1.00	31.39	F	C
	ATOM	5879	CG	MET	F	210	-0.374	23.033	47.159	1.00	35.99	F	C
45	ATOM	5880	SD	MET	F	210	-1.803	24.115	47.041	1.00	32.63	F	S
	ATOM	5881	CE	MET	F	210	-3.130	22.934	46.871	1.00	28.60	F	C
	ATOM	5882	C	MET	F	210	0.749	20.830	44.997	1.00	30.86	F	C
	ATOM	5883	O	MET	F	210	1.259	19.741	45.241	1.00	32.00	F	O
	ATOM	5884	N	LYS	F	211	1.381	21.780	44.324	1.00	30.62	F	N
50	ATOM	5885	CA	LYS	F	211	2.743	21.604	43.851	1.00	30.14	F	C
	ATOM	5886	CB	LYS	F	211	2.751	21.156	42.398	1.00	34.00	F	C
	ATOM	5887	CG	LYS	F	211	4.078	20.564	41.975	1.00	37.52	F	C
	ATOM	5888	CD	LYS	F	211	4.462	21.039	40.596	1.00	40.55	F	C
	ATOM	5889	CE	LYS	F	211	4.763	19.860	39.697	1.00	41.52	F	C
55	ATOM	5890	NZ	LYS	F	211	6.187	19.870	39.276	1.00	45.73	F	N
	ATOM	5891	C	LYS	F	211	3.490	22.916	43.971	1.00	31.66	F	C
	ATOM	5892	O	LYS	F	211	3.286	23.839	43.178	1.00	34.14	F	O
	ATOM	5893	N	ASP	F	212	4.361	23.001	44.967	1.00	30.96	F	N
	ATOM	5894	CA	ASP	F	212	5.118	24.217	45.196	1.00	30.94	F	C
60	ATOM	5895	CB	ASP	F	212	6.181	24.373	44.115	1.00	32.64	F	C
	ATOM	5896	CG	ASP	F	212	7.276	23.327	44.226	1.00	35.02	F	C
	ATOM	5897	OD1	ASP	F	212	7.820	23.139	45.338	1.00	35.36	F	O
	ATOM	5898	OD2	ASP	F	212	7.590	22.693	43.196	1.00	37.81	F	O
	ATOM	5899	C	ASP	F	212	4.228	25.467	45.265	1.00	29.90	F	C
65	ATOM	5900	O	ASP	F	212	4.525	26.500	44.656	1.00	30.34	F	O
	ATOM	5901	N	GLY	F	213	3.128	25.351	46.005	1.00	27.60	F	N
	ATOM	5902	CA	GLY	F	213	2.231	26.470	46.201	1.00	24.91	F	C
	ATOM	5903	C	GLY	F	213	1.128	26.673	45.193	1.00	25.60	F	C
	ATOM	5904	O	GLY	F	213	0.327	27.600	45.349	1.00	25.51	F	O

	ATOM	5905	N	VAL	F	214	1.065	25.828	44.171	1.00	23.19	F	N
	ATOM	5906	CA	VAL	F	214	0.026	25.984	43.158	1.00	24.91	F	C
	ATOM	5907	CB	VAL	F	214	0.654	26.414	41.779	1.00	24.60	F	C
	ATOM	5908	CG1	VAL	F	214	-0.434	26.637	40.727	1.00	20.39	F	C
5	ATOM	5909	CG2	VAL	F	214	1.465	27.700	41.964	1.00	24.39	F	C
	ATOM	5910	C	VAL	F	214	-0.769	24.704	42.978	1.00	25.65	F	C
	ATOM	5911	O	VAL	F	214	-0.203	23.618	43.018	1.00	28.94	F	O
	ATOM	5912	N	VAL	F	215	-2.081	24.824	42.802	1.00	25.61	F	N
10	ATOM	5913	CA	VAL	F	215	-2.913	23.643	42.583	1.00	25.44	F	C
	ATOM	5914	CB	VAL	F	215	-4.416	23.939	42.794	1.00	26.23	F	C
	ATOM	5915	CG1	VAL	F	215	-5.240	22.666	42.537	1.00	24.24	F	C
	ATOM	5916	CG2	VAL	F	215	-4.661	24.458	44.211	1.00	23.07	F	C
	ATOM	5917	C	VAL	F	215	-2.729	23.143	41.143	1.00	27.84	F	C
	ATOM	5918	O	VAL	F	215	-2.997	23.875	40.183	1.00	26.37	F	O
15	ATOM	5919	N	TYR	F	216	-2.264	21.901	40.997	1.00	28.65	F	N
	ATOM	5920	CA	TYR	F	216	-2.058	21.297	39.680	1.00	27.89	F	C
	ATOM	5921	CB	TYR	F	216	-0.709	20.585	39.614	1.00	26.58	F	C
	ATOM	5922	CG	TYR	F	216	0.406	21.493	39.174	1.00	26.10	F	C
20	ATOM	5923	CD1	TYR	F	216	1.142	21.223	38.020	1.00	26.32	F	C
	ATOM	5924	CE1	TYR	F	216	2.161	22.079	37.598	1.00	23.07	F	C
	ATOM	5925	CD2	TYR	F	216	0.718	22.645	39.904	1.00	30.43	F	C
	ATOM	5926	CE2	TYR	F	216	1.734	23.508	39.491	1.00	26.40	F	C
	ATOM	5927	CZ	TYR	F	216	2.448	23.218	38.339	1.00	26.06	F	C
25	ATOM	5928	OH	TYR	F	216	3.441	24.075	37.931	1.00	28.10	F	O
	ATOM	5929	C	TYR	F	216	-3.164	20.304	39.400	1.00	27.66	F	C
	ATOM	5930	O	TYR	F	216	-3.639	19.623	40.305	1.00	25.62	F	O
	ATOM	5931	N	ILE	F	217	-3.582	20.241	38.143	1.00	30.84	F	N
	ATOM	5932	CA	ILE	F	217	-4.644	19.333	37.737	1.00	33.48	F	C
30	ATOM	5933	CB	ILE	F	217	-5.688	20.054	36.880	1.00	31.20	F	C
	ATOM	5934	CG2	ILE	F	217	-6.880	19.143	36.647	1.00	29.61	F	C
	ATOM	5935	CG1	ILE	F	217	-6.113	21.347	37.573	1.00	30.83	F	C
	ATOM	5936	CD1	ILE	F	217	-5.960	22.581	36.706	1.00	29.40	F	C
	ATOM	5937	C	ILE	F	217	-4.082	18.156	36.944	1.00	36.99	F	C
35	ATOM	5938	O	ILE	F	217	-3.399	18.335	35.923	1.00	36.82	F	O
	ATOM	5939	N	TYR	F	218	-4.359	16.954	37.439	1.00	38.63	F	N
	ATOM	5940	CA	TYR	F	218	-3.898	15.735	36.790	1.00	40.80	F	C
	ATOM	5941	CB	TYR	F	218	-3.091	14.882	37.766	1.00	33.98	F	C
	ATOM	5942	CG	TYR	F	218	-1.871	15.604	38.262	1.00	32.71	F	C
40	ATOM	5943	CD1	TYR	F	218	-0.663	15.516	37.576	1.00	32.84	F	C
	ATOM	5944	CE1	TYR	F	218	0.459	16.231	37.992	1.00	32.96	F	C
	ATOM	5945	CD2	TYR	F	218	-1.934	16.426	39.391	1.00	33.08	F	C
	ATOM	5946	CE2	TYR	F	218	-0.823	17.145	39.820	1.00	32.88	F	C
	ATOM	5947	CZ	TYR	F	218	0.372	17.042	39.110	1.00	34.70	F	C
45	ATOM	5948	OH	TYR	F	218	1.482	17.759	39.497	1.00	36.96	F	O
	ATOM	5949	C	TYR	F	218	-5.122	14.987	36.296	1.00	44.33	F	C
	ATOM	5950	O	TYR	F	218	-6.088	14.775	37.041	1.00	42.47	F	O
	ATOM	5951	N	ALA	F	219	-5.082	14.622	35.018	1.00	50.15	F	N
	ATOM	5952	CA	ALA	F	219	-6.180	13.912	34.385	1.00	54.11	F	C
50	ATOM	5953	CB	ALA	F	219	-5.773	13.448	32.973	1.00	53.97	F	C
	ATOM	5954	C	ALA	F	219	-6.566	12.722	35.243	1.00	56.02	F	C
	ATOM	5955	O	ALA	F	219	-5.706	11.932	35.629	1.00	57.08	F	O
	ATOM	5956	N	ASN	F	220	-7.858	12.636	35.552	1.00	59.23	F	N
	ATOM	5957	CA	ASN	F	220	-8.451	11.560	36.348	1.00	61.71	F	C
55	ATOM	5958	CB	ASN	F	220	-9.650	10.963	35.583	1.00	62.99	F	C
	ATOM	5959	CG	ASN	F	220	-9.935	11.681	34.251	1.00	64.06	F	C
	ATOM	5960	OD1	ASN	F	220	-11.078	12.054	33.970	1.00	65.94	F	O
	ATOM	5961	ND2	ASN	F	220	-8.899	11.866	33.430	1.00	63.95	F	N
	ATOM	5962	C	ASN	F	220	-7.452	10.448	36.695	1.00	62.65	F	C
60	ATOM	5963	O	ASN	F	220	-7.657	9.274	36.363	1.00	63.21	F	O
	ATOM	5964	N	GLU	F	221	-6.376	10.813	37.380	1.00	61.84	F	N
	ATOM	5965	CA	GLU	F	221	-5.373	9.825	37.710	1.00	61.53	F	C
	ATOM	5966	CB	GLU	F	221	-4.448	9.595	36.517	1.00	61.92	F	C
	ATOM	5967	CG	GLU	F	221	-4.427	8.183	36.009	1.00	65.17	F	C
	ATOM	5968	CD	GLU	F	221	-3.985	8.109	34.557	1.00	69.84	F	C
65	ATOM	5969	OE1	GLU	F	221	-2.795	7.795	34.300	1.00	71.47	F	O
	ATOM	5970	OE2	GLU	F	221	-4.832	8.369	33.670	1.00	72.28	F	O
	ATOM	5971	C	GLU	F	221	-4.526	10.208	38.888	1.00	60.20	F	C
	ATOM	5972	O	GLU	F	221	-3.814	11.217	38.850	1.00	59.82	F	O

	ATOM	5973	N	ALA	F	222	-4.601	9.396	39.936	1.00	58.79	F	N
	ATOM	5974	CA	ALA	F	222	-3.769	9.621	41.096	1.00	59.45	F	C
	ATOM	5975	CB	ALA	F	222	-4.152	8.673	42.232	1.00	57.54	F	C
	ATOM	5976	C	ALA	F	222	-2.379	9.291	40.539	1.00	59.81	F	C
5	ATOM	5977	O	ALA	F	222	-1.384	9.257	41.262	1.00	59.39	F	O
	ATOM	5978	N	ALA	F	223	-2.338	9.048	39.228	1.00	61.39	F	N
	ATOM	5979	CA	ALA	F	223	-1.102	8.765	38.509	1.00	63.70	F	C
	ATOM	5980	CB	ALA	F	223	-1.409	8.340	37.091	1.00	62.31	F	C
10	ATOM	5981	C	ALA	F	223	-0.286	10.055	38.498	1.00	66.19	F	C
	ATOM	5982	O	ALA	F	223	0.682	10.194	37.741	1.00	67.41	F	O
	ATOM	5983	N	ALA	F	224	-0.716	11.003	39.331	1.00	65.75	F	N
	ATOM	5984	CA	ALA	F	224	-0.047	12.280	39.496	1.00	63.35	F	C
	ATOM	5985	CB	ALA	F	224	-0.787	13.121	40.518	1.00	60.79	F	C
	ATOM	5986	C	ALA	F	224	1.363	11.971	39.995	1.00	64.65	F	C
15	ATOM	5987	O	ALA	F	224	2.247	12.830	39.939	1.00	65.68	F	O
	ATOM	5988	N	GLY	F	225	1.555	10.741	40.491	1.00	64.52	F	N
	ATOM	5989	CA	GLY	F	225	2.857	10.304	40.978	1.00	63.86	F	C
	ATOM	5990	C	GLY	F	225	3.899	10.693	39.946	1.00	65.59	F	C
	ATOM	5991	O	GLY	F	225	4.978	11.201	40.280	1.00	66.03	F	O
20	ATOM	5992	N	LYS	F	226	3.578	10.435	38.681	1.00	65.32	F	N
	ATOM	5993	CA	LYS	F	226	4.452	10.822	37.584	1.00	65.20	F	C
	ATOM	5994	CB	LYS	F	226	4.271	9.886	36.384	1.00	66.35	F	C
	ATOM	5995	CG	LYS	F	226	5.537	9.717	35.538	1.00	68.70	F	C
	ATOM	5996	CD	LYS	F	226	6.665	9.033	36.318	1.00	69.90	F	C
25	ATOM	5997	CE	LYS	F	226	7.497	8.112	35.419	1.00	69.68	F	C
	ATOM	5998	NZ	LYS	F	226	6.834	6.783	35.206	1.00	69.20	F	N
	ATOM	5999	C	LYS	F	226	3.938	12.222	37.259	1.00	63.62	F	C
	ATOM	6000	O	LYS	F	226	2.803	12.388	36.796	1.00	64.64	F	O
	ATOM	6001	N	ASP	F	227	4.756	13.229	37.542	1.00	61.51	F	N
30	ATOM	6002	CA	ASP	F	227	4.365	14.613	37.306	1.00	58.38	F	C
	ATOM	6003	CB	ASP	F	227	5.523	15.546	37.653	1.00	59.09	F	C
	ATOM	6004	CG	ASP	F	227	5.098	16.674	38.569	1.00	62.58	F	C
	ATOM	6005	OD1	ASP	F	227	5.801	16.908	39.585	1.00	62.95	F	O
	ATOM	6006	OD2	ASP	F	227	4.060	17.320	38.270	1.00	60.79	F	O
35	ATOM	6007	C	ASP	F	227	3.902	14.876	35.876	1.00	55.09	F	C
	ATOM	6008	O	ASP	F	227	4.666	15.369	35.042	1.00	55.33	F	O
	ATOM	6009	N	GLU	F	228	2.642	14.560	35.601	1.00	50.79	F	N
	ATOM	6010	CA	GLU	F	228	2.090	14.758	34.272	1.00	48.71	F	C
	ATOM	6011	CB	GLU	F	228	2.002	13.411	33.550	1.00	48.21	F	C
40	ATOM	6012	CG	GLU	F	228	3.309	12.979	32.887	1.00	51.55	F	C
	ATOM	6013	CD	GLU	F	228	3.520	11.465	32.900	1.00	54.38	F	C
	ATOM	6014	OE1	GLU	F	228	2.542	10.713	32.691	1.00	56.11	F	O
	ATOM	6015	OE2	GLU	F	228	4.669	11.021	33.117	1.00	55.57	F	O
	ATOM	6016	C	GLU	F	228	0.714	15.419	34.346	1.00	46.69	F	C
45	ATOM	6017	O	GLU	F	228	-0.317	14.778	34.120	1.00	48.90	F	O
	ATOM	6018	N	PRO	F	229	0.678	16.717	34.669	1.00	43.30	F	N
	ATOM	6019	CD	PRO	F	229	1.825	17.590	34.974	1.00	42.26	F	C
	ATOM	6020	CA	PRO	F	229	-0.600	17.431	34.762	1.00	40.89	F	C
	ATOM	6021	CB	PRO	F	229	-0.205	18.819	35.263	1.00	41.80	F	C
50	ATOM	6022	CG	PRO	F	229	1.237	18.973	34.868	1.00	39.39	F	C
	ATOM	6023	C	PRO	F	229	-1.309	17.510	33.427	1.00	40.29	F	C
	ATOM	6024	O	PRO	F	229	-0.705	17.274	32.385	1.00	40.03	F	O
	ATOM	6025	N	LYS	F	230	-2.597	17.839	33.463	1.00	40.94	F	N
	ATOM	6026	CA	LYS	F	230	-3.378	17.988	32.238	1.00	40.66	F	C
55	ATOM	6027	CB	LYS	F	230	-4.830	18.359	32.565	1.00	41.67	F	C
	ATOM	6028	CG	LYS	F	230	-5.761	17.175	32.799	1.00	44.89	F	C
	ATOM	6029	CD	LYS	F	230	-6.223	16.569	31.477	1.00	47.37	F	C
	ATOM	6030	CE	LYS	F	230	-7.735	16.416	31.423	1.00	47.62	F	C
	ATOM	6031	NZ	LYS	F	230	-8.114	14.977	31.390	1.00	48.85	F	N
60	ATOM	6032	C	LYS	F	230	-2.726	19.127	31.453	1.00	41.61	F	C
	ATOM	6033	O	LYS	F	230	-2.176	20.059	32.043	1.00	41.13	F	O
	ATOM	6034	N	PRO	F	231	-2.776	19.068	30.114	1.00	42.55	F	N
	ATOM	6035	CD	PRO	F	231	-3.380	18.018	29.275	1.00	42.73	F	C
	ATOM	6036	CA	PRO	F	231	-2.163	20.131	29.307	1.00	42.69	F	C
65	ATOM	6037	CB	PRO	F	231	-2.580	19.785	27.882	1.00	43.44	F	C
	ATOM	6038	CG	PRO	F	231	-2.787	18.291	27.925	1.00	45.82	F	C
	ATOM	6039	C	PRO	F	231	-2.630	21.517	29.730	1.00	42.39	F	C
	ATOM	6040	O	PRO	F	231	-3.829	21.803	29.726	1.00	42.78	F	O

	ATOM	6041	N	LEU	F	232	-1.678	22.373	30.090	1.00	42.52	F	N
	ATOM	6042	CA	LEU	F	232	-1.995	23.729	30.538	1.00	41.75	F	C
	ATOM	6043	CB	LEU	F	232	-2.797	23.667	31.843	1.00	40.76	F	C
	ATOM	6044	CG	LEU	F	232	-3.633	24.869	32.283	1.00	40.06	F	C
5	ATOM	6045	CD1	LEU	F	232	-4.783	24.367	33.135	1.00	39.09	F	C
	ATOM	6046	CD2	LEU	F	232	-2.786	25.849	33.075	1.00	38.69	F	C
	ATOM	6047	C	LEU	F	232	-0.709	24.511	30.777	1.00	41.46	F	C
	ATOM	6048	O	LEU	F	232	-0.308	23.937	31.183	1.00	40.73	F	O
10	ATOM	6049	N	LEU	F	233	-0.753	25.816	30.516	1.00	41.86	F	N
	ATOM	6050	CA	LEU	F	233	0.413	26.673	30.738	1.00	41.17	F	C
	ATOM	6051	CB	LEU	F	233	0.363	27.905	29.826	1.00	43.18	F	C
	ATOM	6052	CG	LEU	F	233	-0.972	28.676	29.876	1.00	48.50	F	C
	ATOM	6053	CD1	LEU	F	233	-0.753	30.154	29.485	1.00	48.82	F	C
	ATOM	6054	CD2	LEU	F	233	-2.000	28.002	28.957	1.00	45.77	F	C
15	ATOM	6055	C	LEU	F	233	0.346	27.106	32.202	1.00	38.63	F	C
	ATOM	6056	O	LEU	F	233	-0.517	27.899	32.587	1.00	38.70	F	O
	ATOM	6057	N	TYR	F	234	1.238	26.566	33.022	1.00	34.41	F	N
	ATOM	6058	CA	TYR	F	234	1.245	26.914	34.432	1.00	31.29	F	C
	ATOM	6059	CB	TYR	F	234	1.716	25.716	35.259	1.00	27.05	F	C
20	ATOM	6060	CG	TYR	F	234	0.651	24.655	35.414	1.00	28.10	F	C
	ATOM	6061	CD1	TYR	F	234	0.511	23.645	34.471	1.00	26.69	F	C
	ATOM	6062	CE1	TYR	F	234	-0.492	22.688	34.587	1.00	30.07	F	C
	ATOM	6063	CD2	TYR	F	234	-0.240	24.681	36.489	1.00	30.15	F	C
	ATOM	6064	CE2	TYR	F	234	-1.251	23.727	36.617	1.00	30.22	F	C
25	ATOM	6065	CZ	TYR	F	234	-1.371	22.732	35.658	1.00	31.64	F	C
	ATOM	6066	OH	TYR	F	234	-2.364	21.774	35.751	1.00	34.88	F	O
	ATOM	6067	C	TYR	F	234	2.163	28.109	34.634	1.00	29.93	F	C
	ATOM	6068	O	TYR	F	234	2.979	28.415	33.768	1.00	27.57	F	O
	ATOM	6069	N	PRO	F	235	2.035	28.807	35.778	1.00	29.96	F	N
30	ATOM	6070	CD	PRO	F	235	1.101	28.564	36.893	1.00	30.30	F	C
	ATOM	6071	CA	PRO	F	235	2.897	29.970	36.022	1.00	29.44	F	C
	ATOM	6072	CB	PRO	F	235	2.409	30.524	37.368	1.00	28.09	F	C
	ATOM	6073	CG	PRO	F	235	1.066	29.892	37.598	1.00	29.92	F	C
	ATOM	6074	C	PRO	F	235	4.351	29.536	36.080	1.00	26.62	F	C
35	ATOM	6075	O	PRO	F	235	4.651	28.437	36.522	1.00	31.10	F	O
	ATOM	6076	N	ASN	F	236	5.246	30.394	35.625	1.00	24.99	F	N
	ATOM	6077	CA	ASN	F	236	6.668	30.099	35.644	1.00	25.77	F	C
	ATOM	6078	CB	ASN	F	236	7.255	30.221	34.245	1.00	26.52	F	C
	ATOM	6079	CG	ASN	F	236	8.721	29.865	34.207	1.00	30.49	F	C
40	ATOM	6080	OD1	ASN	F	236	9.516	30.350	35.010	1.00	31.27	F	O
	ATOM	6081	ND2	ASN	F	236	9.090	29.006	33.269	1.00	37.45	F	N
	ATOM	6082	C	ASN	F	236	7.334	31.106	36.563	1.00	26.25	F	C
	ATOM	6083	O	ASN	F	236	7.524	32.262	36.183	1.00	26.43	F	O
	ATOM	6084	N	MET	F	237	7.695	30.657	37.761	1.00	25.90	F	N
45	ATOM	6085	CA	MET	F	237	8.298	31.526	38.752	1.00	27.57	F	C
	ATOM	6086	CB	MET	F	237	8.458	30.788	40.083	1.00	32.47	F	C
	ATOM	6087	CG	MET	F	237	8.561	31.736	41.271	1.00	35.11	F	C
	ATOM	6088	SD	MET	F	237	8.832	30.874	42.803	1.00	43.86	F	S
	ATOM	6089	CE	MET	F	237	10.605	31.123	43.049	1.00	39.23	F	C
50	ATOM	6090	C	MET	F	237	9.624	32.142	38.361	1.00	26.86	F	C
	ATOM	6091	O	MET	F	237	9.903	33.287	38.726	1.00	27.21	F	O
	ATOM	6092	N	GLU	F	238	10.452	31.393	37.643	1.00	25.26	F	N
	ATOM	6093	CA	GLU	F	238	11.747	31.917	37.228	1.00	26.99	F	C
	ATOM	6094	CB	GLU	F	238	12.598	30.807	36.610	1.00	32.66	F	C
55	ATOM	6095	CG	GLU	F	238	14.087	31.102	36.612	1.00	43.77	F	C
	ATOM	6096	CD	GLU	F	238	14.872	30.241	35.620	1.00	50.65	F	C
	ATOM	6097	OE1	GLU	F	238	15.936	30.705	35.133	1.00	54.22	F	O
	ATOM	6098	OE2	GLU	F	238	14.427	29.102	35.331	1.00	54.17	F	O
	ATOM	6099	C	GLU	F	238	11.547	33.051	36.220	1.00	24.82	F	C
60	ATOM	6100	O	GLU	F	238	12.281	34.035	36.225	1.00	24.63	F	O
	ATOM	6101	N	GLU	F	239	10.548	32.905	35.358	1.00	21.16	F	N
	ATOM	6102	CA	GLU	F	239	10.249	33.925	34.375	1.00	21.08	F	C
	ATOM	6103	CB	GLU	F	239	9.224	33.400	33.370	1.00	25.21	F	C
	ATOM	6104	CG	GLU	F	239	8.894	34.375	32.238	1.00	28.84	F	C
65	ATOM	6105	CD	GLU	F	239	7.748	33.893	31.371	1.00	32.28	F	C
	ATOM	6106	OE1	GLU	F	239	7.112	34.737	30.704	1.00	35.32	F	O
	ATOM	6107	OE2	GLU	F	239	7.480	32.669	31.354	1.00	36.34	F	O
	ATOM	6108	C	GLU	F	239	9.681	35.131	35.107	1.00	18.21	F	C

	ATOM	6109	O	GLU	F	239	10.017	36.268	34.808	1.00	19.35	F	O
	ATOM	6110	N	PHE	F	240	8.817	34.874	36.076	1.00	18.22	F	N
	ATOM	6111	CA	PHE	F	240	8.211	35.950	36.848	1.00	18.53	F	C
5	ATOM	6112	CB	PHE	F	240	7.235	35.378	37.871	1.00	16.35	F	C
	ATOM	6113	CG	PHE	F	240	6.567	36.426	38.703	1.00	19.77	F	C
	ATOM	6114	CD1	PHE	F	240	7.218	36.979	39.805	1.00	17.83	F	C
	ATOM	6115	CD2	PHE	F	240	5.289	36.877	38.381	1.00	19.18	F	C
	ATOM	6116	CE1	PHE	F	240	6.603	37.961	40.567	1.00	19.54	F	C
10	ATOM	6117	CE2	PHE	F	240	4.667	37.862	39.143	1.00	20.14	F	C
	ATOM	6118	CZ	PHE	F	240	5.324	38.402	40.235	1.00	19.26	F	C
	ATOM	6119	C	PHE	F	240	9.264	36.781	37.564	1.00	19.64	F	C
	ATOM	6120	O	PHE	F	240	9.240	38.016	37.518	1.00	19.62	F	O
	ATOM	6121	N	LEU	F	241	10.191	36.091	38.226	1.00	21.44	F	N
	ATOM	6122	CA	LEU	F	241	11.250	36.751	38.976	1.00	21.57	F	C
15	ATOM	6123	CB	LEU	F	241	12.043	35.716	39.786	1.00	21.06	F	C
	ATOM	6124	CG	LEU	F	241	11.371	35.150	41.052	1.00	24.60	F	C
	ATOM	6125	CD1	LEU	F	241	12.128	33.897	41.525	1.00	22.80	F	C
	ATOM	6126	CD2	LEU	F	241	11.363	36.212	42.165	1.00	22.89	F	C
	ATOM	6127	C	LEU	F	241	12.175	37.537	38.048	1.00	23.02	F	C
20	ATOM	6128	O	LEU	F	241	12.739	38.560	38.439	1.00	22.79	F	O
	ATOM	6129	N	ASP	F	242	12.326	37.070	36.816	1.00	24.51	F	N
	ATOM	6130	CA	ASP	F	242	13.176	37.772	35.861	1.00	25.76	F	C
	ATOM	6131	CB	ASP	F	242	13.315	36.948	34.577	1.00	29.91	F	C
	ATOM	6132	CG	ASP	F	242	14.232	35.744	34.747	1.00	36.44	F	C
25	ATOM	6133	OD1	ASP	F	242	15.010	35.711	35.729	1.00	39.90	F	O
	ATOM	6134	OD2	ASP	F	242	14.176	34.825	33.894	1.00	42.14	F	O
	ATOM	6135	C	ASP	F	242	12.554	39.130	35.534	1.00	22.17	F	C
	ATOM	6136	O	ASP	F	242	13.234	40.151	35.522	1.00	21.50	F	O
	ATOM	6137	N	ASP	F	243	11.250	39.112	35.267	1.00	22.07	F	N
30	ATOM	6138	CA	ASP	F	243	10.476	40.306	34.927	1.00	18.58	F	C
	ATOM	6139	CB	ASP	F	243	9.068	39.896	34.481	1.00	16.18	F	C
	ATOM	6140	CG	ASP	F	243	9.071	39.153	33.155	1.00	16.70	F	C
	ATOM	6141	OD1	ASP	F	243	10.017	39.356	32.372	1.00	17.19	F	O
	ATOM	6142	OD2	ASP	F	243	8.133	38.375	32.892	1.00	15.72	F	O
35	ATOM	6143	C	ASP	F	243	10.385	41.248	36.122	1.00	18.20	F	C
	ATOM	6144	O	ASP	F	243	10.460	42.459	35.972	1.00	19.42	F	O
	ATOM	6145	N	MET	F	244	10.214	40.683	37.309	1.00	18.12	F	N
	ATOM	6146	CA	MET	F	244	10.132	41.477	38.531	1.00	19.50	F	C
	ATOM	6147	CB	MET	F	244	9.836	40.565	39.724	1.00	17.56	F	C
40	ATOM	6148	CG	MET	F	244	9.773	41.263	41.060	1.00	20.16	F	C
	ATOM	6149	SD	MET	F	244	9.859	40.077	42.458	1.00	24.61	F	S
	ATOM	6150	CE	MET	F	244	11.626	39.806	42.550	1.00	19.46	F	C
	ATOM	6151	C	MET	F	244	11.447	42.225	38.761	1.00	19.21	F	C
	ATOM	6152	O	MET	F	244	11.453	43.429	39.037	1.00	19.11	F	O
45	ATOM	6153	N	ASN	F	245	12.563	41.512	38.648	1.00	19.67	F	N
	ATOM	6154	CA	ASN	F	245	13.875	42.130	38.831	1.00	20.69	F	C
	ATOM	6155	CB	ASN	F	245	14.978	41.078	38.712	1.00	19.64	F	C
	ATOM	6156	CG	ASN	F	245	15.072	40.209	39.943	1.00	24.77	F	C
	ATOM	6157	OD1	ASN	F	245	15.040	40.705	41.070	1.00	25.45	F	O
50	ATOM	6158	ND2	ASN	F	245	15.181	38.906	39.740	1.00	25.76	F	N
	ATOM	6159	C	ASN	F	245	14.115	43.249	37.820	1.00	20.99	F	C
	ATOM	6160	O	ASN	F	245	14.730	44.262	38.145	1.00	21.28	F	O
	ATOM	6161	N	PHE	F	246	13.632	43.055	36.594	1.00	21.99	F	N
	ATOM	6162	CA	PHE	F	246	13.780	44.060	35.544	1.00	20.53	F	C
55	ATOM	6163	CB	PHE	F	246	13.236	43.533	34.215	1.00	18.93	F	C
	ATOM	6164	CG	PHE	F	246	12.901	44.617	33.247	1.00	22.32	F	C
	ATOM	6165	CD1	PHE	F	246	11.597	45.077	33.120	1.00	21.81	F	C
	ATOM	6166	CD2	PHE	F	246	13.904	45.231	32.505	1.00	23.30	F	C
	ATOM	6167	CE1	PHE	F	246	11.291	46.140	32.272	1.00	20.07	F	C
60	ATOM	6168	CE2	PHE	F	246	13.604	46.297	31.652	1.00	23.81	F	C
	ATOM	6169	CZ	PHE	F	246	12.290	46.749	31.541	1.00	21.14	F	C
	ATOM	6170	C	PHE	F	246	13.013	45.331	35.918	1.00	19.27	F	C
	ATOM	6171	O	PHE	F	246	13.499	46.442	35.733	1.00	22.16	F	O
	ATOM	6172	N	LEU	F	247	11.804	45.158	36.433	1.00	17.79	F	N
65	ATOM	6173	CA	LEU	F	247	10.984	46.293	36.807	1.00	16.52	F	C
	ATOM	6174	CB	LEU	F	247	9.567	45.820	37.105	1.00	13.93	F	C
	ATOM	6175	CG	LEU	F	247	8.722	45.426	35.881	1.00	16.55	F	C
	ATOM	6176	CD1	LEU	F	247	7.419	44.779	36.387	1.00	14.27	F	C

	ATOM	6177	CD2	LEU	F	247	8.405	46.657	35.005	1.00	9.93	F	C
	ATOM	6178	C	LEU	F	247	11.587	47.005	38.009	1.00	18.85	F	C
	ATOM	6179	O	LEU	F	247	11.560	48.237	38.104	1.00	19.60	F	O
	ATOM	6180	N	LEU	F	248	12.146	46.225	38.925	1.00	20.77	F	N
5	ATOM	6181	CA	LEU	F	248	12.770	46.797	40.101	1.00	20.77	F	C
	ATOM	6182	CB	LEU	F	248	13.302	45.689	41.001	1.00	23.51	F	C
	ATOM	6183	CG	LEU	F	248	12.591	45.447	42.335	1.00	27.13	F	C
	ATOM	6184	CD1	LEU	F	248	11.172	45.988	42.308	1.00	28.20	F	C
10	ATOM	6185	CD2	LEU	F	248	12.590	43.957	42.607	1.00	26.74	F	C
	ATOM	6186	C	LEU	F	248	13.913	47.686	39.637	1.00	21.48	F	C
	ATOM	6187	O	LEU	F	248	14.064	48.815	40.096	1.00	24.72	F	O
	ATOM	6188	N	ALA	F	249	14.720	47.189	38.713	1.00	19.71	F	N
	ATOM	6189	CA	ALA	F	249	15.825	47.992	38.206	1.00	20.43	F	C
	ATOM	6190	CB	ALA	F	249	16.670	47.161	37.244	1.00	16.64	F	C
15	ATOM	6191	C	ALA	F	249	15.277	49.236	37.496	1.00	21.20	F	C
	ATOM	6192	O	ALA	F	249	15.691	50.365	37.772	1.00	22.66	F	O
	ATOM	6193	N	LEU	F	250	14.321	49.021	36.598	1.00	20.58	F	N
	ATOM	6194	CA	LEU	F	250	13.722	50.103	35.828	1.00	20.44	F	C
	ATOM	6195	CB	LEU	F	250	12.555	49.563	34.999	1.00	17.53	F	C
20	ATOM	6196	CG	LEU	F	250	11.874	50.627	34.148	1.00	17.23	F	C
	ATOM	6197	CD1	LEU	F	250	12.766	50.920	32.975	1.00	16.13	F	C
	ATOM	6198	CD2	LEU	F	250	10.492	50.150	33.680	1.00	20.07	F	C
	ATOM	6199	C	LEU	F	250	13.242	51.298	36.654	1.00	21.36	F	C
	ATOM	6200	O	LEU	F	250	13.620	52.436	36.382	1.00	21.43	F	O
25	ATOM	6201	N	ILE	F	251	12.412	51.048	37.662	1.00	21.93	F	N
	ATOM	6202	CA	ILE	F	251	11.883	52.142	38.464	1.00	22.25	F	C
	ATOM	6203	CB	ILE	F	251	10.760	51.653	39.430	1.00	22.89	F	C
	ATOM	6204	CG2	ILE	F	251	9.708	50.864	38.664	1.00	21.04	F	C
	ATOM	6205	CG1	ILE	F	251	11.340	50.768	40.526	1.00	23.96	F	C
30	ATOM	6206	CD1	ILE	F	251	10.274	50.210	41.479	1.00	24.36	F	C
	ATOM	6207	C	ILE	F	251	12.939	52.908	39.254	1.00	23.71	F	C
	ATOM	6208	O	ILE	F	251	12.683	54.013	39.746	1.00	24.85	F	O
	ATOM	6209	N	ALA	F	252	14.130	52.339	39.373	1.00	23.53	F	N
	ATOM	6210	CA	ALA	F	252	15.179	53.027	40.103	1.00	24.64	F	C
35	ATOM	6211	CB	ALA	F	252	15.925	52.044	40.981	1.00	23.99	F	C
	ATOM	6212	C	ALA	F	252	16.156	53.745	39.175	1.00	25.78	F	C
	ATOM	6213	O	ALA	F	252	17.040	54.463	39.648	1.00	27.36	F	O
	ATOM	6214	N	GLN	F	253	15.996	53.552	37.866	1.00	24.53	F	N
	ATOM	6215	CA	GLN	F	253	16.871	54.161	36.865	1.00	22.97	F	C
40	ATOM	6216	CB	GLN	F	253	16.591	53.560	35.501	1.00	28.98	F	C
	ATOM	6217	CG	GLN	F	253	17.753	52.831	34.886	1.00	33.95	F	C
	ATOM	6218	CD	GLN	F	253	17.288	51.893	33.797	1.00	38.75	F	C
	ATOM	6219	OE1	GLN	F	253	17.459	50.675	33.895	1.00	44.26	F	O
	ATOM	6220	NE2	GLN	F	253	16.685	52.455	32.745	1.00	42.54	F	N
45	ATOM	6221	C	GLN	F	253	16.721	55.663	36.756	1.00	22.65	F	C
	ATOM	6222	O	GLN	F	253	15.639	56.168	36.457	1.00	24.79	F	O
	ATOM	6223	N	GLY	F	254	17.824	56.369	36.966	1.00	21.59	F	N
	ATOM	6224	CA	GLY	F	254	17.817	57.814	36.899	1.00	20.14	F	C
	ATOM	6225	C	GLY	F	254	17.118	58.415	35.698	1.00	21.85	F	C
50	ATOM	6226	O	GLY	F	254	16.174	59.188	35.862	1.00	25.19	F	O
	ATOM	6227	N	PRO	F	255	17.560	58.095	34.473	1.00	21.40	F	N
	ATOM	6228	CD	PRO	F	255	18.690	57.216	34.140	1.00	19.30	F	C
	ATOM	6229	CA	PRO	F	255	16.921	58.649	33.276	1.00	20.25	F	C
	ATOM	6230	CB	PRO	F	255	17.716	58.028	32.130	1.00	21.87	F	C
55	ATOM	6231	CG	PRO	F	255	19.054	57.672	32.772	1.00	23.32	F	C
	ATOM	6232	C	PRO	F	255	15.421	58.366	33.166	1.00	19.85	F	C
	ATOM	6233	O	PRO	F	255	14.656	59.218	32.716	1.00	20.33	F	O
	ATOM	6234	N	VAL	F	256	14.995	57.173	33.567	1.00	18.72	F	N
	ATOM	6235	CA	VAL	F	256	13.575	56.829	33.485	1.00	17.47	F	C
60	ATOM	6236	CB	VAL	F	256	13.358	55.325	33.732	1.00	15.84	F	C
	ATOM	6237	CG1	VAL	F	256	11.910	54.978	33.538	1.00	12.93	F	C
	ATOM	6238	CG2	VAL	F	256	14.220	54.513	32.763	1.00	14.76	F	C
	ATOM	6239	C	VAL	F	256	12.782	57.661	34.505	1.00	19.27	F	C
	ATOM	6240	O	VAL	F	256	11.666	58.131	34.237	1.00	20.42	F	O
65	ATOM	6241	N	LYS	F	257	13.369	57.862	35.676	1.00	18.71	F	N
	ATOM	6242	CA	LYS	F	257	12.728	58.661	36.711	1.00	19.06	F	C
	ATOM	6243	CB	LYS	F	257	13.571	58.606	37.980	1.00	21.72	F	C
	ATOM	6244	CG	LYS	F	257	13.098	57.571	38.961	1.00	24.33	F	C

	ATOM	6245	CD	LYS	F	257	14.251	56.861	39.581	1.00	26.87	F	C
	ATOM	6246	CE	LYS	F	257	14.605	57.473	40.911	1.00	28.28	F	C
	ATOM	6247	NZ	LYS	F	257	16.028	57.147	41.271	1.00	35.80	F	N
5	ATOM	6248	C	LYS	F	257	12.584	60.106	36.232	1.00	17.31	F	C
	ATOM	6249	O	LYS	F	257	11.536	60.722	36.404	1.00	17.94	F	O
	ATOM	6250	N	THR	F	258	13.646	60.639	35.630	1.00	16.48	F	N
	ATOM	6251	CA	THR	F	258	13.636	62.002	35.091	1.00	17.01	F	C
	ATOM	6252	CB	THR	F	258	15.010	62.368	34.462	1.00	18.57	F	C
10	ATOM	6253	OG1	THR	F	258	16.021	62.322	35.475	1.00	25.12	F	O
	ATOM	6254	CG2	THR	F	258	14.977	63.767	33.870	1.00	17.92	F	C
	ATOM	6255	C	THR	F	258	12.568	62.178	34.012	1.00	15.30	F	C
	ATOM	6256	O	THR	F	258	11.766	63.104	34.059	1.00	16.47	F	O
	ATOM	6257	N	TYR	F	259	12.559	61.280	33.036	1.00	13.93	F	N
15	ATOM	6258	CA	TYR	F	259	11.599	61.375	31.952	1.00	12.35	F	C
	ATOM	6259	CB	TYR	F	259	11.841	60.248	30.932	1.00	13.64	F	C
	ATOM	6260	CG	TYR	F	259	10.867	60.242	29.764	1.00	14.52	F	C
	ATOM	6261	CD1	TYR	F	259	9.809	59.337	29.719	1.00	16.80	F	C
	ATOM	6262	CE1	TYR	F	259	8.904	59.336	28.642	1.00	19.86	F	C
20	ATOM	6263	CD2	TYR	F	259	11.003	61.143	28.708	1.00	16.66	F	C
	ATOM	6264	CE2	TYR	F	259	10.107	61.153	27.631	1.00	14.07	F	C
	ATOM	6265	CZ	TYR	F	259	9.063	60.254	27.604	1.00	17.91	F	C
	ATOM	6266	OH	TYR	F	259	8.146	60.295	26.570	1.00	18.69	F	O
	ATOM	6267	C	TYR	F	259	10.169	61.315	32.451	1.00	12.05	F	C
25	ATOM	6268	O	TYR	F	259	9.375	62.220	32.206	1.00	13.58	F	O
	ATOM	6269	N	THR	F	260	9.839	60.242	33.158	1.00	12.94	F	N
	ATOM	6270	CA	THR	F	260	8.480	60.059	33.629	1.00	14.47	F	C
	ATOM	6271	CB	THR	F	260	8.326	58.689	34.325	1.00	16.45	F	C
	ATOM	6272	OG1	THR	F	260	9.242	58.595	35.429	1.00	20.16	F	O
30	ATOM	6273	CG2	THR	F	260	8.617	57.562	33.328	1.00	11.28	F	C
	ATOM	6274	C	THR	F	260	8.021	61.187	34.536	1.00	14.98	F	C
	ATOM	6275	O	THR	F	260	6.860	61.565	34.503	1.00	14.76	F	O
	ATOM	6276	N	HIS	F	261	8.933	61.738	35.335	1.00	18.69	F	N
	ATOM	6277	CA	HIS	F	261	8.592	62.846	36.228	1.00	17.59	F	C
35	ATOM	6278	CB	HIS	F	261	9.800	63.232	37.089	1.00	21.96	F	C
	ATOM	6279	CG	HIS	F	261	9.520	64.332	38.074	1.00	24.82	F	C
	ATOM	6280	CD2	HIS	F	261	8.767	64.352	39.200	1.00	22.31	F	C
	ATOM	6281	ND1	HIS	F	261	10.043	65.603	37.942	1.00	24.53	F	N
	ATOM	6282	CE1	HIS	F	261	9.625	66.356	38.945	1.00	22.78	F	C
40	ATOM	6283	NE2	HIS	F	261	8.849	65.621	39.720	1.00	22.40	F	N
	ATOM	6284	C	HIS	F	261	8.156	64.046	35.393	1.00	16.93	F	C
	ATOM	6285	O	HIS	F	261	7.166	64.719	35.705	1.00	16.41	F	O
	ATOM	6286	N	ARG	F	262	8.895	64.313	34.325	1.00	16.19	F	N
	ATOM	6287	CA	ARG	F	262	8.562	65.434	33.451	1.00	15.99	F	C
45	ATOM	6288	CB	ARG	F	262	9.679	65.634	32.425	1.00	18.71	F	C
	ATOM	6289	CG	ARG	F	262	9.789	67.047	31.865	1.00	28.43	F	C
	ATOM	6290	CD	ARG	F	262	10.693	67.089	30.622	1.00	32.62	F	C
	ATOM	6291	NE	ARG	F	262	11.973	66.416	30.853	1.00	39.96	F	N
	ATOM	6292	CZ	ARG	F	262	12.354	65.291	30.251	1.00	40.26	F	C
50	ATOM	6293	NH1	ARG	F	262	11.551	64.704	29.375	1.00	42.25	F	N
	ATOM	6294	NH2	ARG	F	262	13.533	64.740	30.535	1.00	43.09	F	N
	ATOM	6295	C	ARG	F	262	7.210	65.217	32.752	1.00	12.02	F	C
	ATOM	6296	O	ARG	F	262	6.378	66.125	32.710	1.00	15.74	F	O
	ATOM	6297	N	ARG	F	263	6.968	64.014	32.233	1.00	10.83	F	N
55	ATOM	6298	CA	ARG	F	263	5.705	63.748	31.549	1.00	8.56	F	C
	ATOM	6299	CB	ARG	F	263	5.715	62.337	30.942	1.00	6.96	F	C
	ATOM	6300	CG	ARG	F	263	6.792	62.074	29.863	1.00	7.79	F	C
	ATOM	6301	CD	ARG	F	263	6.911	63.208	28.855	1.00	6.43	F	C
	ATOM	6302	NE	ARG	F	263	5.622	63.558	28.253	1.00	8.57	F	N
60	ATOM	6303	CZ	ARG	F	263	5.387	64.704	27.603	1.00	12.13	F	C
	ATOM	6304	NH1	ARG	F	263	6.353	65.602	27.472	1.00	9.28	F	N
	ATOM	6305	NH2	ARG	F	263	4.193	64.959	27.073	1.00	7.71	F	N
	ATOM	6306	C	ARG	F	263	4.497	63.915	32.494	1.00	11.43	F	C
	ATOM	6307	O	ARG	F	263	3.441	64.409	32.092	1.00	12.65	F	O
65	ATOM	6308	N	LEU	F	264	4.660	63.520	33.758	1.00	12.10	F	N
	ATOM	6309	CA	LEU	F	264	3.576	63.633	34.735	1.00	11.78	F	C
	ATOM	6310	CB	LEU	F	264	3.947	62.897	36.034	1.00	9.44	F	C
	ATOM	6311	CG	LEU	F	264	3.914	61.365	35.929	1.00	10.10	F	C
	ATOM	6312	CD1	LEU	F	264	4.693	60.716	37.071	1.00	9.40	F	C

	ATOM	6313	CD2	LEU	F	264	2.474	60.898	35.924	1.00	5.42	F	C
	ATOM	6314	C	LEU	F	264	3.258	65.102	35.010	1.00	9.98	F	C
	ATOM	6315	O	LEU	F	264	2.089	65.485	35.142	1.00	7.73	F	O
	ATOM	6316	N	LYS	F	265	4.302	65.925	35.086	1.00	12.43	F	N
5	ATOM	6317	CA	LYS	F	265	4.132	67.366	35.295	1.00	12.48	F	C
	ATOM	6318	CB	LYS	F	265	5.491	68.056	35.415	1.00	15.54	F	C
	ATOM	6319	CG	LYS	F	265	6.099	68.018	36.824	1.00	21.21	F	C
	ATOM	6320	CD	LYS	F	265	7.622	68.288	36.808	1.00	27.36	F	C
10	ATOM	6321	CE	LYS	F	265	7.957	69.725	36.382	1.00	31.13	F	C
	ATOM	6322	NZ	LYS	F	265	9.420	69.944	36.103	1.00	34.74	F	N
	ATOM	6323	C	LYS	F	265	3.385	67.939	34.090	1.00	13.71	F	C
	ATOM	6324	O	LYS	F	265	2.497	68.776	34.242	1.00	15.06	F	O
	ATOM	6325	N	PHE	F	266	3.740	67.479	32.889	1.00	14.34	F	N
15	ATOM	6326	CA	PHE	F	266	3.068	67.955	31.682	1.00	11.91	F	C
	ATOM	6327	CB	PHE	F	266	3.716	67.364	30.409	1.00	11.52	F	C
	ATOM	6328	CG	PHE	F	266	3.022	67.785	29.136	1.00	11.90	F	C
	ATOM	6329	CD1	PHE	F	266	3.163	69.087	28.648	1.00	11.17	F	C
	ATOM	6330	CD2	PHE	F	266	2.144	66.907	28.477	1.00	11.91	F	C
20	ATOM	6331	CE1	PHE	F	266	2.421	69.530	27.506	1.00	13.64	F	C
	ATOM	6332	CE2	PHE	F	266	1.403	67.328	27.340	1.00	14.53	F	C
	ATOM	6333	CZ	PHE	F	266	1.542	68.651	26.856	1.00	12.77	F	C
	ATOM	6334	C	PHE	F	266	1.587	67.578	31.741	1.00	10.30	F	C
	ATOM	6335	O	PHE	F	266	0.722	68.416	31.509	1.00	11.90	F	O
25	ATOM	6336	N	LEU	F	267	1.302	66.317	32.057	1.00	9.84	F	N
	ATOM	6337	CA	LEU	F	267	-0.076	65.825	32.151	1.00	10.82	F	C
	ATOM	6338	CB	LEU	F	267	-0.070	64.386	32.678	1.00	11.78	F	C
	ATOM	6339	CG	LEU	F	267	-0.341	63.175	31.764	1.00	14.86	F	C
	ATOM	6340	CD1	LEU	F	267	-0.208	63.535	30.301	1.00	14.83	F	C
30	ATOM	6341	CD2	LEU	F	267	0.620	62.072	32.120	1.00	9.86	F	C
	ATOM	6342	C	LEU	F	267	-0.924	66.701	33.077	1.00	11.36	F	C
	ATOM	6343	O	LEU	F	267	-2.088	67.003	32.806	1.00	9.07	F	O
	ATOM	6344	N	SER	F	268	-0.317	67.107	34.185	1.00	11.99	F	N
	ATOM	6345	CA	SER	F	268	-0.981	67.937	35.164	1.00	7.72	F	C
35	ATOM	6346	CB	SER	F	268	-0.123	67.980	36.434	1.00	10.36	F	C
	ATOM	6347	OG	SER	F	268	-0.578	68.977	37.338	1.00	10.89	F	O
	ATOM	6348	C	SER	F	268	-1.235	69.352	34.634	1.00	9.59	F	C
	ATOM	6349	O	SER	F	268	-2.364	69.855	34.721	1.00	9.02	F	O
	ATOM	6350	N	SER	F	269	-0.201	70.008	34.103	1.00	8.65	F	N
40	ATOM	6351	CA	SER	F	269	-0.382	71.359	33.560	1.00	10.54	F	C
	ATOM	6352	CB	SER	F	269	0.955	71.952	33.137	1.00	12.03	F	C
	ATOM	6353	OG	SER	F	269	1.804	72.144	34.244	1.00	12.84	F	O
	ATOM	6354	C	SER	F	269	-1.328	71.371	32.351	1.00	10.28	F	C
	ATOM	6355	O	SER	F	269	-2.154	72.282	32.214	1.00	11.78	F	O
45	ATOM	6356	N	LYS	F	270	-1.211	70.369	31.473	1.00	10.70	F	N
	ATOM	6357	CA	LYS	F	270	-2.079	70.315	30.305	1.00	10.59	F	C
	ATOM	6358	CB	LYS	F	270	-1.797	69.071	29.447	1.00	9.36	F	C
	ATOM	6359	CG	LYS	F	270	-2.342	69.207	27.988	1.00	12.31	F	C
	ATOM	6360	CD	LYS	F	270	-2.377	67.895	27.203	1.00	5.97	F	C
50	ATOM	6361	CE	LYS	F	270	-3.156	68.063	25.901	1.00	11.99	F	C
	ATOM	6362	NZ	LYS	F	270	-3.391	66.763	25.187	1.00	11.54	F	N
	ATOM	6363	C	LYS	F	270	-3.535	70.318	30.732	1.00	10.71	F	C
	ATOM	6364	O	LYS	F	270	-4.362	71.006	30.138	1.00	12.97	F	O
	ATOM	6365	N	PHE	F	271	-3.860	69.557	31.770	1.00	13.09	F	N
55	ATOM	6366	CA	PHE	F	271	-5.243	69.509	32.219	1.00	12.53	F	C
	ATOM	6367	CB	PHE	F	271	-5.450	68.456	33.298	1.00	12.55	F	C
	ATOM	6368	CG	PHE	F	271	-6.887	68.299	33.691	1.00	11.41	F	C
	ATOM	6369	CD1	PHE	F	271	-7.755	67.532	32.908	1.00	10.06	F	C
	ATOM	6370	CD2	PHE	F	271	-7.396	68.960	34.809	1.00	10.81	F	C
60	ATOM	6371	CE1	PHE	F	271	-9.112	67.429	33.228	1.00	10.70	F	C
	ATOM	6372	CE2	PHE	F	271	-8.764	68.863	35.149	1.00	10.72	F	C
	ATOM	6373	CZ	PHE	F	271	-9.624	68.097	34.356	1.00	7.56	F	C
	ATOM	6374	C	PHE	F	271	-5.687	70.852	32.759	1.00	15.58	F	C
	ATOM	6375	O	PHE	F	271	-6.841	71.261	32.585	1.00	17.60	F	O
65	ATOM	6376	N	GLN	F	272	-4.777	71.548	33.421	1.00	14.99	F	N
	ATOM	6377	CA	GLN	F	272	-5.115	72.855	33.964	1.00	15.91	F	C
	ATOM	6378	CB	GLN	F	272	-3.935	73.420	34.748	1.00	18.98	F	C
	ATOM	6379	CG	GLN	F	272	-4.195	73.457	36.238	1.00	31.09	F	C
	ATOM	6380	CD	GLN	F	272	-3.552	72.297	36.977	1.00	36.09	F	C

	ATOM	6381	OE1	GLN	F	272	-2.441	72.423	37.495	1.00	38.01	F	O
	ATOM	6382	NE2	GLN	F	272	-4.249	71.158	37.035	1.00	37.15	F	N
	ATOM	6383	C	GLN	F	272	-5.497	73.808	32.842	1.00	14.15	F	C
5	ATOM	6384	O	GLN	F	272	-6.473	74.554	32.948	1.00	12.69	F	O
	ATOM	6385	N	VAL	F	273	-4.726	73.794	31.758	1.00	14.69	F	N
	ATOM	6386	CA	VAL	F	273	-5.040	74.675	30.643	1.00	11.06	F	C
	ATOM	6387	CB	VAL	F	273	-3.913	74.680	29.612	1.00	12.64	F	C
	ATOM	6388	CG1	VAL	F	273	-4.315	75.542	28.413	1.00	10.54	F	C
10	ATOM	6389	CG2	VAL	F	273	-2.644	75.202	30.257	1.00	5.99	F	C
	ATOM	6390	C	VAL	F	273	-6.346	74.235	29.985	1.00	12.42	F	C
	ATOM	6391	O	VAL	F	273	-7.199	75.071	29.663	1.00	10.41	F	O
	ATOM	6392	N	HIS	F	274	-6.513	72.921	29.809	1.00	12.98	F	N
	ATOM	6393	CA	HIS	F	274	-7.732	72.397	29.201	1.00	11.90	F	C
15	ATOM	6394	CB	HIS	F	274	-7.727	70.863	29.152	1.00	12.14	F	C
	ATOM	6395	CG	HIS	F	274	-9.060	70.264	28.792	1.00	15.17	F	C
	ATOM	6396	CD2	HIS	F	274	-9.991	69.633	29.550	1.00	16.53	F	C
	ATOM	6397	ND1	HIS	F	274	-9.584	70.312	27.513	1.00	15.23	F	N
	ATOM	6398	CE1	HIS	F	274	-10.776	69.740	27.501	1.00	14.01	F	C
20	ATOM	6399	NE2	HIS	F	274	-11.048	69.320	28.724	1.00	12.59	F	N
	ATOM	6400	C	HIS	F	274	-8.959	72.845	29.966	1.00	13.96	F	C
	ATOM	6401	O	HIS	F	274	-9.930	73.320	29.367	1.00	13.98	F	O
	ATOM	6402	N	GLN	F	275	-8.924	72.685	31.291	1.00	17.39	F	N
	ATOM	6403	CA	GLN	F	275	-10.065	73.053	32.139	1.00	18.60	F	C
25	ATOM	6404	CB	GLN	F	275	-9.841	72.597	33.582	1.00	21.92	F	C
	ATOM	6405	CG	GLN	F	275	-10.882	71.582	34.047	1.00	33.52	F	C
	ATOM	6406	CD	GLN	F	275	-11.087	71.563	35.570	1.00	38.80	F	C
	ATOM	6407	OE1	GLN	F	275	-10.384	72.263	36.324	1.00	37.34	F	O
	ATOM	6408	NE2	GLN	F	275	-12.060	70.757	36.025	1.00	34.88	F	N
30	ATOM	6409	C	GLN	F	275	-10.405	74.532	32.137	1.00	17.76	F	C
	ATOM	6410	O	GLN	F	275	-11.578	74.899	32.044	1.00	17.36	F	O
	ATOM	6411	N	MET	F	276	-9.397	75.391	32.241	1.00	16.67	F	N
	ATOM	6412	CA	MET	F	276	-9.691	76.808	32.244	1.00	17.98	F	C
	ATOM	6413	CB	MET	F	276	-8.461	77.623	32.642	1.00	17.81	F	C
35	ATOM	6414	CG	MET	F	276	-7.405	77.745	31.580	1.00	24.57	F	C
	ATOM	6415	SD	MET	F	276	-5.977	78.684	32.184	1.00	30.10	F	S
	ATOM	6416	CE	MET	F	276	-5.068	77.467	33.157	1.00	27.70	F	C
	ATOM	6417	C	MET	F	276	-10.217	77.250	30.886	1.00	17.47	F	C
	ATOM	6418	O	MET	F	276	-11.093	78.098	30.815	1.00	20.81	F	O
40	ATOM	6419	N	LEU	F	277	-9.714	76.655	29.811	1.00	16.34	F	N
	ATOM	6420	CA	LEU	F	277	-10.160	77.028	28.474	1.00	15.58	F	C
	ATOM	6421	CB	LEU	F	277	-9.072	76.656	27.465	1.00	14.67	F	C
	ATOM	6422	CG	LEU	F	277	-8.137	77.710	26.843	1.00	20.67	F	C
	ATOM	6423	CD1	LEU	F	277	-7.976	78.944	27.725	1.00	18.24	F	C
45	ATOM	6424	CD2	LEU	F	277	-6.801	77.063	26.600	1.00	19.59	F	C
	ATOM	6425	C	LEU	F	277	-11.492	76.396	28.036	1.00	15.39	F	C
	ATOM	6426	O	LEU	F	277	-12.307	77.036	27.376	1.00	15.65	F	O
	ATOM	6427	N	ASN	F	278	-11.731	75.149	28.434	1.00	15.64	F	N
	ATOM	6428	CA	ASN	F	278	-12.925	74.427	27.991	1.00	13.99	F	C
50	ATOM	6429	CB	ASN	F	278	-12.479	73.211	27.167	1.00	14.26	F	C
	ATOM	6430	CG	ASN	F	278	-11.478	73.581	26.073	1.00	13.78	F	C
	ATOM	6431	OD1	ASN	F	278	-10.334	73.110	26.056	1.00	13.15	F	O
	ATOM	6432	ND2	ASN	F	278	-11.908	74.434	25.163	1.00	8.29	F	N
	ATOM	6433	C	ASN	F	278	-13.994	73.956	28.977	1.00	15.02	F	C
55	ATOM	6434	O	ASN	F	278	-14.989	73.355	28.549	1.00	11.55	F	O
	ATOM	6435	N	GLU	F	279	-13.823	74.214	30.272	1.00	15.38	F	N
	ATOM	6436	CA	GLU	F	279	-14.829	73.753	31.242	1.00	17.09	F	C
	ATOM	6437	CB	GLU	F	279	-14.426	74.148	32.671	1.00	15.96	F	C
	ATOM	6438	CG	GLU	F	279	-14.371	75.635	32.898	1.00	21.09	F	C
60	ATOM	6439	CD	GLU	F	279	-13.870	75.977	34.282	1.00	27.50	F	C
	ATOM	6440	OE1	GLU	F	279	-14.153	75.194	35.216	1.00	31.27	F	O
	ATOM	6441	OE2	GLU	F	279	-13.199	77.020	34.441	1.00	28.62	F	O
	ATOM	6442	C	GLU	F	279	-16.252	74.242	30.947	1.00	15.10	F	C
	ATOM	6443	O	GLU	F	279	-17.220	73.506	31.144	1.00	15.07	F	O
65	ATOM	6444	N	MET	F	280	-16.394	75.474	30.469	1.00	15.55	F	N
	ATOM	6445	CA	MET	F	280	-17.727	75.982	30.168	1.00	17.25	F	C
	ATOM	6446	CB	MET	F	280	-17.657	77.484	29.887	1.00	20.69	F	C
	ATOM	6447	CG	MET	F	280	-17.566	78.355	31.162	1.00	29.34	F	C
	ATOM	6448	SD	MET	F	280	-18.510	77.761	32.673	1.00	38.98	F	S

	ATOM	6449	CE	MET	F	280	-20.172	78.374	32.317	1.00	32.79	F	C
	ATOM	6450	C	MET	F	280	-18.334	75.223	28.981	1.00	17.14	F	C
	ATOM	6451	O	MET	F	280	-19.552	75.063	28.865	1.00	16.39	F	O
5	ATOM	6452	N	ASP	F	281	-17.463	74.719	28.122	1.00	16.36	F	N
	ATOM	6453	CA	ASP	F	281	-17.887	73.968	26.957	1.00	16.35	F	C
	ATOM	6454	CB	ASP	F	281	-16.751	73.952	25.932	1.00	21.22	F	C
	ATOM	6455	CG	ASP	F	281	-16.433	75.358	25.414	1.00	28.17	F	C
	ATOM	6456	OD1	ASP	F	281	-15.470	75.999	25.909	1.00	30.91	F	O
10	ATOM	6457	OD2	ASP	F	281	-17.174	75.833	24.524	1.00	27.59	F	O
	ATOM	6458	C	ASP	F	281	-18.303	72.562	27.347	1.00	14.81	F	C
	ATOM	6459	O	ASP	F	281	-19.260	72.012	26.797	1.00	10.05	F	O
	ATOM	6460	N	GLU	F	282	-17.579	71.982	28.300	1.00	13.51	F	N
	ATOM	6461	CA	GLU	F	282	-17.905	70.649	28.779	1.00	11.26	F	C
15	ATOM	6462	CB	GLU	F	282	-16.813	70.149	29.728	1.00	12.45	F	C
	ATOM	6463	CG	GLU	F	282	-15.509	69.809	29.025	1.00	8.10	F	C
	ATOM	6464	CD	GLU	F	282	-14.443	69.370	29.994	1.00	14.31	F	C
	ATOM	6465	OE1	GLU	F	282	-14.448	69.858	31.149	1.00	11.49	F	O
	ATOM	6466	OE2	GLU	F	282	-13.594	68.533	29.611	1.00	14.68	F	O
20	ATOM	6467	C	GLU	F	282	-19.250	70.751	29.498	1.00	12.92	F	C
	ATOM	6468	O	GLU	F	282	-20.122	69.912	29.310	1.00	13.44	F	O
	ATOM	6469	N	LEU	F	283	-19.429	71.802	30.296	1.00	12.42	F	N
	ATOM	6470	CA	LEU	F	283	-20.680	72.010	31.021	1.00	12.28	F	C
	ATOM	6471	CB	LEU	F	283	-20.578	73.285	31.864	1.00	13.16	F	C
25	ATOM	6472	CG	LEU	F	283	-21.353	73.459	33.182	1.00	17.77	F	C
	ATOM	6473	CD1	LEU	F	283	-21.813	74.903	33.293	1.00	13.11	F	C
	ATOM	6474	CD2	LEU	F	283	-22.534	72.504	33.265	1.00	16.06	F	C
	ATOM	6475	C	LEU	F	283	-21.865	72.133	30.051	1.00	13.97	F	C
	ATOM	6476	O	LEU	F	283	-22.967	71.616	30.309	1.00	12.19	F	O
30	ATOM	6477	N	LYS	F	284	-21.642	72.837	28.942	1.00	14.31	F	N
	ATOM	6478	CA	LYS	F	284	-22.688	73.028	27.945	1.00	14.22	F	C
	ATOM	6479	CB	LYS	F	284	-22.153	73.851	26.772	1.00	18.51	F	C
	ATOM	6480	CG	LYS	F	284	-23.223	74.281	25.784	1.00	21.87	F	C
	ATOM	6481	CD	LYS	F	284	-22.594	74.757	24.485	1.00	28.28	F	C
35	ATOM	6482	CE	LYS	F	284	-23.644	75.230	23.490	1.00	35.01	F	C
	ATOM	6483	NZ	LYS	F	284	-23.225	76.494	22.795	1.00	39.85	F	N
	ATOM	6484	C	LYS	F	284	-23.223	71.686	27.454	1.00	12.69	F	C
	ATOM	6485	O	LYS	F	284	-24.433	71.500	27.330	1.00	14.03	F	O
	ATOM	6486	N	GLU	F	285	-22.323	70.750	27.180	1.00	13.19	F	N
40	ATOM	6487	CA	GLU	F	285	-22.721	69.417	26.742	1.00	11.95	F	C
	ATOM	6488	CB	GLU	F	285	-21.494	68.510	26.582	1.00	10.19	F	C
	ATOM	6489	CG	GLU	F	285	-20.653	68.762	25.350	1.00	12.46	F	C
	ATOM	6490	CD	GLU	F	285	-19.678	67.625	25.069	1.00	16.50	F	C
	ATOM	6491	OE1	GLU	F	285	-20.139	66.501	24.730	1.00	16.39	F	O
45	ATOM	6492	OE2	GLU	F	285	-18.446	67.855	25.188	1.00	16.78	F	O
	ATOM	6493	C	GLU	F	285	-23.652	68.786	27.778	1.00	13.60	F	C
	ATOM	6494	O	GLU	F	285	-24.680	68.189	27.433	1.00	12.67	F	O
	ATOM	6495	N	LEU	F	286	-23.287	68.905	29.056	1.00	15.58	F	N
	ATOM	6496	CA	LEU	F	286	-24.100	68.313	30.121	1.00	15.85	F	C
50	ATOM	6497	CB	LEU	F	286	-23.382	68.384	31.480	1.00	16.24	F	C
	ATOM	6498	CG	LEU	F	286	-21.971	67.811	31.739	1.00	19.35	F	C
	ATOM	6499	CD1	LEU	F	286	-22.015	67.005	33.024	1.00	15.78	F	C
	ATOM	6500	CD2	LEU	F	286	-21.445	66.972	30.577	1.00	10.43	F	C
	ATOM	6501	C	LEU	F	286	-25.445	69.007	30.220	1.00	14.56	F	C
55	ATOM	6502	O	LEU	F	286	-26.474	68.351	30.316	1.00	14.68	F	O
	ATOM	6503	N	LYS	F	287	-25.444	70.335	30.196	1.00	17.05	F	N
	ATOM	6504	CA	LYS	F	287	-26.700	71.065	30.286	1.00	19.25	F	C
	ATOM	6505	CB	LYS	F	287	-26.456	72.567	30.259	1.00	19.80	F	C
	ATOM	6506	CG	LYS	F	287	-25.927	73.124	31.558	1.00	20.17	F	C
60	ATOM	6507	CD	LYS	F	287	-25.175	74.408	31.300	1.00	22.85	F	C
	ATOM	6508	CE	LYS	F	287	-25.708	75.564	32.119	1.00	27.58	F	C
	ATOM	6509	NZ	LYS	F	287	-24.663	76.634	32.259	1.00	29.31	F	N
	ATOM	6510	C	LYS	F	287	-27.600	70.685	29.125	1.00	21.47	F	C
	ATOM	6511	O	LYS	F	287	-28.818	70.572	29.283	1.00	22.05	F	O
65	ATOM	6512	N	ASN	F	288	-26.997	70.471	27.960	1.00	21.97	F	N
	ATOM	6513	CA	ASN	F	288	-27.770	70.118	26.770	1.00	23.40	F	C
	ATOM	6514	CB	ASN	F	288	-27.049	70.598	25.503	1.00	24.09	F	C
	ATOM	6515	CG	ASN	F	288	-27.102	72.118	25.342	1.00	25.60	F	C
	ATOM	6516	OD1	ASN	F	288	-28.124	72.748	25.604	1.00	26.55	F	O

	ATOM	6517	ND2	ASN	F	288	-25.995	72.708	24.912	1.00	29.88	F	N
	ATOM	6518	C	ASN	F	288	-28.079	68.630	26.658	1.00	23.75	F	C
	ATOM	6519	O	ASN	F	288	-28.629	68.178	25.665	1.00	24.40	F	O
5	ATOM	6520	N	ASN	F	289	-27.712	67.872	27.678	1.00	24.06	F	N
	ATOM	6521	CA	ASN	F	289	-27.975	66.435	27.713	1.00	23.81	F	C
	ATOM	6522	CB	ASN	F	289	-26.757	65.712	28.282	1.00	18.36	F	C
	ATOM	6523	CG	ASN	F	289	-26.933	64.230	28.304	1.00	15.52	F	C
	ATOM	6524	OD1	ASN	F	289	-27.505	63.658	27.389	1.00	14.57	F	O
10	ATOM	6525	ND2	ASN	F	289	-26.451	63.590	29.357	1.00	16.82	F	N
	ATOM	6526	C	ASN	F	289	-29.177	66.259	28.647	1.00	25.41	F	C
	ATOM	6527	O	ASN	F	289	-29.016	66.151	29.851	1.00	29.71	F	O
	ATOM	6528	N	PRO	F	290	-30.397	66.231	28.104	1.00	26.88	F	N
	ATOM	6529	CD	PRO	F	290	-30.729	66.318	26.673	1.00	27.28	F	C
	ATOM	6530	CA	PRO	F	290	-31.602	66.084	28.930	1.00	27.78	F	C
15	ATOM	6531	CB	PRO	F	290	-32.720	66.455	27.973	1.00	30.17	F	C
	ATOM	6532	CG	PRO	F	290	-32.193	65.999	26.649	1.00	26.46	F	C
	ATOM	6533	C	PRO	F	290	-31.833	64.715	29.556	1.00	28.29	F	C
	ATOM	6534	O	PRO	F	290	-32.610	64.568	30.508	1.00	28.29	F	O
20	ATOM	6535	N	HIS	F	291	-31.157	63.713	29.025	1.00	28.72	F	N
	ATOM	6536	CA	HIS	F	291	-31.313	62.362	29.537	1.00	35.62	F	C
	ATOM	6537	CB	HIS	F	291	-30.721	61.357	28.549	1.00	38.25	F	C
	ATOM	6538	CG	HIS	F	291	-31.330	61.441	27.189	1.00	47.48	F	C
	ATOM	6539	CD2	HIS	F	291	-32.396	60.804	26.651	1.00	47.35	F	C
25	ATOM	6540	ND1	HIS	F	291	-30.883	62.326	26.230	1.00	50.98	F	N
	ATOM	6541	CE1	HIS	F	291	-31.652	62.232	25.159	1.00	51.89	F	C
	ATOM	6542	NE2	HIS	F	291	-32.577	61.316	25.389	1.00	49.64	F	N
	ATOM	6543	C	HIS	F	291	-30.677	62.128	30.901	1.00	36.08	F	C
	ATOM	6544	O	HIS	F	291	-30.941	61.110	31.544	1.00	38.68	F	O
30	ATOM	6545	N	ARG	F	292	-29.866	63.061	31.375	1.00	30.23	F	N
	ATOM	6546	CA	ARG	F	292	-29.208	62.773	32.615	1.00	24.50	F	C
	ATOM	6547	CB	ARG	F	292	-28.141	61.712	32.333	1.00	24.41	F	C
	ATOM	6548	CG	ARG	F	292	-28.344	60.442	33.107	1.00	28.78	F	C
	ATOM	6549	CD	ARG	F	292	-27.768	59.282	32.399	1.00	25.68	F	C
35	ATOM	6550	NE	ARG	F	292	-28.766	58.575	31.608	1.00	23.10	F	N
	ATOM	6551	CZ	ARG	F	292	-29.646	57.705	32.085	1.00	24.98	F	C
	ATOM	6552	NH1	ARG	F	292	-29.695	57.395	33.377	1.00	28.53	F	N
	ATOM	6553	NH2	ARG	F	292	-30.450	57.089	31.247	1.00	27.36	F	N
	ATOM	6554	C	ARG	F	292	-28.551	63.917	33.332	1.00	23.06	F	C
40	ATOM	6555	O	ARG	F	292	-28.315	64.983	32.758	1.00	20.29	F	O
	ATOM	6556	N	ASP	F	293	-28.294	63.669	34.615	1.00	17.75	F	N
	ATOM	6557	CA	ASP	F	293	-27.533	64.576	35.451	1.00	19.40	F	C
	ATOM	6558	CB	ASP	F	293	-28.395	65.649	36.153	1.00	16.72	F	C
	ATOM	6559	CG	ASP	F	293	-29.475	65.086	37.047	1.00	19.49	F	C
45	ATOM	6560	OD1	ASP	F	293	-30.454	65.841	37.236	1.00	17.58	F	O
	ATOM	6561	OD2	ASP	F	293	-29.367	63.943	37.563	1.00	16.77	F	O
	ATOM	6562	C	ASP	F	293	-26.797	63.647	36.412	1.00	19.39	F	C
	ATOM	6563	O	ASP	F	293	-26.915	62.422	36.280	1.00	17.33	F	O
	ATOM	6564	N	PHE	F	294	-26.015	64.198	37.335	1.00	18.21	F	N
50	ATOM	6565	CA	PHE	F	294	-25.271	63.349	38.256	1.00	18.78	F	C
	ATOM	6566	CB	PHE	F	294	-24.504	64.191	39.292	1.00	17.15	F	C
	ATOM	6567	CG	PHE	F	294	-23.691	63.364	40.259	1.00	19.59	F	C
	ATOM	6568	CD1	PHE	F	294	-22.464	62.813	39.878	1.00	16.76	F	C
	ATOM	6569	CD2	PHE	F	294	-24.159	63.115	41.546	1.00	19.60	F	C
55	ATOM	6570	CE1	PHE	F	294	-21.713	62.024	40.765	1.00	16.56	F	C
	ATOM	6571	CE2	PHE	F	294	-23.409	62.324	42.443	1.00	19.77	F	C
	ATOM	6572	CZ	PHE	F	294	-22.188	61.784	42.044	1.00	15.51	F	C
	ATOM	6573	C	PHE	F	294	-26.156	62.354	38.986	1.00	17.23	F	C
	ATOM	6574	O	PHE	F	294	-25.777	61.206	39.188	1.00	18.60	F	O
60	ATOM	6575	N	TYR	F	295	-27.359	62.778	39.335	1.00	16.33	F	N
	ATOM	6576	CA	TYR	F	295	-28.233	61.931	40.104	1.00	14.91	F	C
	ATOM	6577	CB	TYR	F	295	-29.305	62.797	40.751	1.00	14.75	F	C
	ATOM	6578	CG	TYR	F	295	-28.677	63.804	41.693	1.00	16.22	F	C
	ATOM	6579	CD1	TYR	F	295	-28.162	63.405	42.924	1.00	17.61	F	C
65	ATOM	6580	CE1	TYR	F	295	-27.485	64.305	43.752	1.00	19.11	F	C
	ATOM	6581	CD2	TYR	F	295	-28.504	65.130	41.314	1.00	15.65	F	C
	ATOM	6582	CE2	TYR	F	295	-27.832	66.033	42.128	1.00	17.63	F	C
	ATOM	6583	CZ	TYR	F	295	-27.325	65.619	43.348	1.00	20.03	F	C
	ATOM	6584	OH	TYR	F	295	-26.693	66.528	44.182	1.00	22.11	F	O

	ATOM	6585	C	TYR	F	295	-28.813	60.683	39.466	1.00	19.03	F	C
	ATOM	6586	O	TYR	F	295	-29.294	59.799	40.180	1.00	20.77	F	O
	ATOM	6587	N	ASN	F	296	-28.787	60.566	38.145	1.00	17.63	F	N
	ATOM	6588	CA	ASN	F	296	-29.276	59.317	37.578	1.00	17.01	F	C
5	ATOM	6589	CB	ASN	F	296	-30.604	59.485	36.827	1.00	18.47	F	C
	ATOM	6590	CG	ASN	F	296	-30.550	60.500	35.723	1.00	18.30	F	C
	ATOM	6591	OD1	ASN	F	296	-31.489	60.588	34.956	1.00	20.45	F	O
	ATOM	6592	ND2	ASN	F	296	-29.473	61.274	35.634	1.00	17.79	F	N
10	ATOM	6593	C	ASN	F	296	-28.248	58.590	36.725	1.00	16.83	F	C
	ATOM	6594	O	ASN	F	296	-28.596	57.885	35.773	1.00	15.50	F	O
	ATOM	6595	N	CYS	F	297	-26.980	58.788	37.098	1.00	16.45	F	N
	ATOM	6596	CA	CYS	F	297	-25.816	58.136	36.502	1.00	16.19	F	C
	ATOM	6597	CB	CYS	F	297	-24.586	59.058	36.490	1.00	19.90	F	C
	ATOM	6598	SG	CYS	F	297	-24.620	60.351	35.258	1.00	28.49	F	S
15	ATOM	6599	C	CYS	F	297	-25.538	57.055	37.530	1.00	14.52	F	C
	ATOM	6600	O	CYS	F	297	-25.776	57.268	38.714	1.00	14.36	F	O
	ATOM	6601	N	ARG	F	298	-25.035	55.908	37.096	1.00	14.81	F	N
	ATOM	6602	CA	ARG	F	298	-24.709	54.847	38.029	1.00	15.68	F	C
	ATOM	6603	CB	ARG	F	298	-24.681	53.501	37.308	1.00	14.35	F	C
20	ATOM	6604	CG	ARG	F	298	-25.999	52.797	37.298	1.00	16.28	F	C
	ATOM	6605	CD	ARG	F	298	-26.972	53.493	36.365	1.00	15.73	F	C
	ATOM	6606	NE	ARG	F	298	-28.263	52.813	36.362	1.00	18.24	F	N
	ATOM	6607	CZ	ARG	F	298	-29.268	53.114	35.550	1.00	18.83	F	C
	ATOM	6608	NH1	ARG	F	298	-29.138	54.094	34.664	1.00	16.20	F	N
25	ATOM	6609	NH2	ARG	F	298	-30.402	52.437	35.632	1.00	20.03	F	N
	ATOM	6610	C	ARG	F	298	-23.326	55.125	38.640	1.00	18.76	F	C
	ATOM	6611	O	ARG	F	298	-22.417	55.623	37.954	1.00	17.33	F	O
	ATOM	6612	N	LYS	F	299	-23.185	54.819	39.930	1.00	17.44	F	N
	ATOM	6613	CA	LYS	F	299	-21.927	54.989	40.660	1.00	14.58	F	C
30	ATOM	6614	CB	LYS	F	299	-22.045	56.096	41.704	1.00	13.88	F	C
	ATOM	6615	CG	LYS	F	299	-21.766	57.478	41.188	1.00	15.16	F	C
	ATOM	6616	CD	LYS	F	299	-23.006	58.043	40.553	1.00	16.56	F	C
	ATOM	6617	CE	LYS	F	299	-23.913	58.695	41.558	1.00	14.33	F	C
	ATOM	6618	NZ	LYS	F	299	-25.266	58.865	40.968	1.00	10.03	F	N
35	ATOM	6619	C	LYS	F	299	-21.717	53.673	41.376	1.00	12.00	F	C
	ATOM	6620	O	LYS	F	299	-22.658	53.131	41.942	1.00	11.19	F	O
	ATOM	6621	N	VAL	F	300	-20.500	53.150	41.349	1.00	11.70	F	N
	ATOM	6622	CA	VAL	F	300	-20.228	51.888	42.019	1.00	10.14	F	C
	ATOM	6623	CB	VAL	F	300	-19.734	50.842	41.011	1.00	9.31	F	C
40	ATOM	6624	CG1	VAL	F	300	-19.564	49.489	41.693	1.00	8.76	F	C
	ATOM	6625	CG2	VAL	F	300	-20.727	50.733	39.865	1.00	7.62	F	C
	ATOM	6626	C	VAL	F	300	-19.189	52.060	43.133	1.00	13.65	F	C
	ATOM	6627	O	VAL	F	300	-18.194	52.774	42.960	1.00	14.84	F	O
	ATOM	6628	N	ASP	F	301	-19.441	51.438	44.285	1.00	14.40	F	N
45	ATOM	6629	CA	ASP	F	301	-18.497	51.512	45.405	1.00	13.05	F	C
	ATOM	6630	CB	ASP	F	301	-19.210	51.289	46.749	1.00	13.40	F	C
	ATOM	6631	CG	ASP	F	301	-18.391	51.794	47.945	1.00	13.75	F	C
	ATOM	6632	OD1	ASP	F	301	-18.995	52.038	49.008	1.00	17.20	F	O
	ATOM	6633	OD2	ASP	F	301	-17.155	51.939	47.836	1.00	10.04	F	O
50	ATOM	6634	C	ASP	F	301	-17.572	50.367	45.091	1.00	11.00	F	C
	ATOM	6635	O	ASP	F	301	-17.878	49.204	45.359	1.00	10.97	F	O
	ATOM	6636	N	THR	F	302	-16.441	50.713	44.498	1.00	11.14	F	N
	ATOM	6637	CA	THR	F	302	-15.466	49.732	44.057	1.00	12.50	F	C
	ATOM	6638	CB	THR	F	302	-14.630	50.339	42.914	1.00	13.06	F	C
55	ATOM	6639	OG1	THR	F	302	-14.183	51.640	43.309	1.00	15.18	F	O
	ATOM	6640	CG2	THR	F	302	-15.489	50.485	41.640	1.00	6.71	F	C
	ATOM	6641	C	THR	F	302	-14.541	49.162	45.127	1.00	13.44	F	C
	ATOM	6642	O	THR	F	302	-13.774	48.251	44.858	1.00	15.67	F	O
	ATOM	6643	N	HIS	F	303	-14.603	49.697	46.336	1.00	13.43	F	N
60	ATOM	6644	CA	HIS	F	303	-13.770	49.199	47.418	1.00	13.26	F	C
	ATOM	6645	CB	HIS	F	303	-12.441	49.949	47.439	1.00	16.48	F	C
	ATOM	6646	CG	HIS	F	303	-11.737	49.900	48.763	1.00	19.97	F	C
	ATOM	6647	CD2	HIS	F	303	-11.478	48.866	49.597	1.00	16.16	F	C
	ATOM	6648	ND1	HIS	F	303	-11.193	51.020	49.361	1.00	18.87	F	N
65	ATOM	6649	CE1	HIS	F	303	-10.629	50.679	50.505	1.00	16.69	F	C
	ATOM	6650	NE2	HIS	F	303	-10.789	49.377	50.672	1.00	21.39	F	N
	ATOM	6651	C	HIS	F	303	-14.530	49.399	48.727	1.00	12.82	F	C
	ATOM	6652	O	HIS	F	303	-14.581	50.504	49.256	1.00	10.51	F	O

	ATOM	6653	N	ILE	F	304	-15.127	48.315	49.218	1.00	12.97	F	N
	ATOM	6654	CA	ILE	F	304	-15.908	48.323	50.440	1.00	14.58	F	C
	ATOM	6655	CB	ILE	F	304	-17.388	48.785	50.151	1.00	14.22	F	C
	ATOM	6656	CG2	ILE	F	304	-17.980	47.990	49.006	1.00	12.66	F	C
5	ATOM	6657	CG1	ILE	F	304	-18.240	48.631	51.403	1.00	12.26	F	C
	ATOM	6658	CD1	ILE	F	304	-19.573	49.323	51.310	1.00	16.52	F	C
	ATOM	6659	C	ILE	F	304	-15.904	46.917	51.068	1.00	16.48	F	C
	ATOM	6660	O	ILE	F	304	-16.031	45.911	50.364	1.00	14.70	F	O
10	ATOM	6661	N	HIS	F	305	-15.752	46.860	52.391	1.00	16.13	F	N
	ATOM	6662	CA	HIS	F	305	-15.723	45.589	53.131	1.00	11.97	F	C
	ATOM	6663	CB	HIS	F	305	-14.670	45.672	54.243	1.00	11.31	F	C
	ATOM	6664	CG	HIS	F	305	-13.313	46.081	53.751	1.00	10.77	F	C
	ATOM	6665	CD2	HIS	F	305	-12.783	47.306	53.508	1.00	13.47	F	C
	ATOM	6666	ND1	HIS	F	305	-12.338	45.169	53.398	1.00	13.00	F	N
15	ATOM	6667	CE1	HIS	F	305	-11.269	45.812	52.962	1.00	12.41	F	C
	ATOM	6668	NE2	HIS	F	305	-11.512	47.111	53.017	1.00	10.65	F	N
	ATOM	6669	C	HIS	F	305	-17.108	45.292	53.700	1.00	11.53	F	C
	ATOM	6670	O	HIS	F	305	-17.723	46.156	54.306	1.00	12.90	F	O
20	ATOM	6671	N	ALA	F	306	-17.604	44.074	53.490	1.00	12.05	F	N
	ATOM	6672	CA	ALA	F	306	-18.941	43.689	53.953	1.00	13.34	F	C
	ATOM	6673	CB	ALA	F	306	-19.228	42.237	53.565	1.00	10.82	F	C
	ATOM	6674	C	ALA	F	306	-19.156	43.871	55.459	1.00	13.80	F	C
	ATOM	6675	O	ALA	F	306	-20.215	44.323	55.895	1.00	14.17	F	O
25	ATOM	6676	N	ALA	F	307	-18.146	43.515	56.243	1.00	14.08	F	N
	ATOM	6677	CA	ALA	F	307	-18.221	43.626	57.690	1.00	14.53	F	C
	ATOM	6678	CB	ALA	F	307	-16.963	43.039	58.306	1.00	10.10	F	C
	ATOM	6679	C	ALA	F	307	-18.429	45.057	58.180	1.00	15.49	F	C
	ATOM	6680	O	ALA	F	307	-18.663	45.266	59.363	1.00	19.70	F	O
30	ATOM	6681	N	ALA	F	308	-18.353	46.038	57.280	1.00	15.94	F	N
	ATOM	6682	CA	ALA	F	308	-18.526	47.435	57.663	1.00	14.19	F	C
	ATOM	6683	CB	ALA	F	308	-17.173	48.105	57.785	1.00	17.42	F	C
	ATOM	6684	C	ALA	F	308	-19.358	48.212	56.678	1.00	15.80	F	C
	ATOM	6685	O	ALA	F	308	-19.323	49.450	56.675	1.00	15.15	F	O
35	ATOM	6686	N	CYS	F	309	-20.111	47.504	55.847	1.00	15.59	F	N
	ATOM	6687	CA	CYS	F	309	-20.908	48.177	54.826	1.00	17.37	F	C
	ATOM	6688	CB	CYS	F	309	-21.344	47.173	53.755	1.00	16.61	F	C
	ATOM	6689	SG	CYS	F	309	-22.574	45.951	54.303	1.00	18.41	F	S
	ATOM	6690	C	CYS	F	309	-22.118	48.925	55.357	1.00	18.53	F	C
40	ATOM	6691	O	CYS	F	309	-22.749	49.689	54.619	1.00	19.56	F	O
	ATOM	6692	N	MET	F	310	-22.443	48.721	56.633	1.00	18.82	F	N
	ATOM	6693	CA	MET	F	310	-23.600	49.393	57.236	1.00	18.66	F	C
	ATOM	6694	CB	MET	F	310	-24.418	48.393	58.075	1.00	17.18	F	C
	ATOM	6695	CG	MET	F	310	-23.792	48.043	59.432	1.00	12.88	F	C
45	ATOM	6696	SD	MET	F	310	-22.163	47.236	59.356	1.00	17.80	F	S
	ATOM	6697	CE	MET	F	310	-22.550	45.688	58.449	1.00	15.09	F	C
	ATOM	6698	C	MET	F	310	-23.215	50.601	58.104	1.00	18.67	F	C
	ATOM	6699	O	MET	F	310	-22.123	50.657	58.662	1.00	18.17	F	O
50	ATOM	6700	N	ASN	F	311	-24.126	51.565	58.199	1.00	18.90	F	N
	ATOM	6701	CA	ASN	F	311	-23.911	52.762	59.012	1.00	21.38	F	C
	ATOM	6702	CB	ASN	F	311	-24.983	53.817	58.712	1.00	22.42	F	C
	ATOM	6703	CG	ASN	F	311	-24.747	55.122	59.468	1.00	25.98	F	C
	ATOM	6704	OD1	ASN	F	311	-23.721	55.774	59.295	1.00	29.75	F	O
	ATOM	6705	ND2	ASN	F	311	-25.700	55.503	60.307	1.00	27.83	F	N
55	ATOM	6706	C	ASN	F	311	-23.992	52.383	60.495	1.00	21.93	F	C
	ATOM	6707	O	ASN	F	311	-24.673	51.414	60.867	1.00	18.75	F	O
	ATOM	6708	N	GLN	F	312	-23.299	53.139	61.340	1.00	19.89	F	N
	ATOM	6709	CA	GLN	F	312	-23.338	52.853	62.765	1.00	19.90	F	C
	ATOM	6710	CB	GLN	F	312	-22.425	53.818	63.505	1.00	20.18	F	C
60	ATOM	6711	CG	GLN	F	312	-22.842	55.250	63.375	1.00	18.39	F	C
	ATOM	6712	CD	GLN	F	312	-21.883	56.169	64.080	1.00	19.89	F	C
	ATOM	6713	OE1	GLN	F	312	-21.104	55.726	64.919	1.00	20.15	F	O
	ATOM	6714	NE2	GLN	F	312	-21.918	57.458	63.737	1.00	20.99	F	N
	ATOM	6715	C	GLN	F	312	-24.780	52.950	63.311	1.00	19.66	F	C
65	ATOM	6716	O	GLN	F	312	-25.168	52.169	64.169	1.00	19.42	F	O
	ATOM	6717	N	LYS	F	313	-25.575	53.892	62.804	1.00	17.31	F	N
	ATOM	6718	CA	LYS	F	313	-26.962	54.045	63.252	1.00	18.29	F	C
	ATOM	6719	CB	LYS	F	313	-27.578	55.317	62.678	1.00	20.95	F	C
	ATOM	6720	CG	LYS	F	313	-26.972	56.596	63.220	1.00	26.15	F	C

	ATOM	6721	CD	LYS	F	313	-27.913	57.760	63.007	1.00	28.65	F	C
	ATOM	6722	CE	LYS	F	313	-27.826	58.267	61.586	1.00	31.96	F	C
	ATOM	6723	NZ	LYS	F	313	-28.829	59.342	61.361	1.00	34.63	F	N
	ATOM	6724	C	LYS	F	313	-27.816	52.869	62.817	1.00	18.08	F	C
5	ATOM	6725	O	LYS	F	313	-28.823	52.552	63.441	1.00	16.75	F	O
	ATOM	6726	N	HIS	F	314	-27.408	52.244	61.719	1.00	19.07	F	N
	ATOM	6727	CA	HIS	F	314	-28.096	51.089	61.167	1.00	17.50	F	C
	ATOM	6728	CB	HIS	F	314	-27.605	50.869	59.735	1.00	20.04	F	C
10	ATOM	6729	CG	HIS	F	314	-28.247	49.716	59.034	1.00	21.78	F	C
	ATOM	6730	CD2	HIS	F	314	-27.981	49.152	57.833	1.00	21.03	F	C
	ATOM	6731	ND1	HIS	F	314	-29.264	48.972	59.592	1.00	23.48	F	N
	ATOM	6732	CE1	HIS	F	314	-29.595	47.994	58.767	1.00	22.73	F	C
	ATOM	6733	NE2	HIS	F	314	-28.831	48.081	57.692	1.00	25.51	F	N
15	ATOM	6734	C	HIS	F	314	-27.766	49.889	62.065	1.00	17.09	F	C
	ATOM	6735	O	HIS	F	314	-28.657	49.141	62.469	1.00	17.01	F	O
	ATOM	6736	N	LEU	F	315	-26.489	49.711	62.384	1.00	13.43	F	N
	ATOM	6737	CA	LEU	F	315	-26.098	48.622	63.265	1.00	15.27	F	C
	ATOM	6738	CB	LEU	F	315	-24.579	48.613	63.455	1.00	14.55	F	C
	ATOM	6739	CG	LEU	F	315	-24.064	47.630	64.513	1.00	15.22	F	C
20	ATOM	6740	CD1	LEU	F	315	-24.496	46.214	64.136	1.00	14.48	F	C
	ATOM	6741	CD2	LEU	F	315	-22.533	47.722	64.643	1.00	12.50	F	C
	ATOM	6742	C	LEU	F	315	-26.800	48.792	64.628	1.00	16.50	F	C
	ATOM	6743	O	LEU	F	315	-27.345	47.835	65.168	1.00	19.03	F	O
	ATOM	6744	N	LEU	F	316	-26.794	50.008	65.174	1.00	15.01	F	N
25	ATOM	6745	CA	LEU	F	316	-27.438	50.284	66.454	1.00	15.40	F	C
	ATOM	6746	CB	LEU	F	316	-27.323	51.772	66.792	1.00	15.54	F	C
	ATOM	6747	CG	LEU	F	316	-27.893	52.222	68.145	1.00	17.00	F	C
	ATOM	6748	CD1	LEU	F	316	-27.113	51.548	69.288	1.00	12.61	F	C
	ATOM	6749	CD2	LEU	F	316	-27.815	53.734	68.260	1.00	15.66	F	C
30	ATOM	6750	C	LEU	F	316	-28.914	49.882	66.438	1.00	18.41	F	C
	ATOM	6751	O	LEU	F	316	-29.411	49.189	67.335	1.00	20.37	F	O
	ATOM	6752	N	ARG	F	317	-29.621	50.326	65.412	1.00	20.31	F	N
	ATOM	6753	CA	ARG	F	317	-31.027	50.015	65.276	1.00	19.94	F	C
	ATOM	6754	CB	ARG	F	317	-31.561	50.725	64.031	1.00	23.29	F	C
35	ATOM	6755	CG	ARG	F	317	-32.983	50.400	63.646	1.00	28.27	F	C
	ATOM	6756	CD	ARG	F	317	-33.502	51.416	62.608	1.00	35.96	F	C
	ATOM	6757	NE	ARG	F	317	-32.581	51.630	61.481	1.00	39.88	F	N
	ATOM	6758	CZ	ARG	F	317	-31.853	52.731	61.294	1.00	41.46	F	C
	ATOM	6759	NH1	ARG	F	317	-31.925	53.740	62.162	1.00	43.34	F	N
40	ATOM	6760	NH2	ARG	F	317	-31.063	52.833	60.229	1.00	40.35	F	N
	ATOM	6761	C	ARG	F	317	-31.261	48.498	65.196	1.00	19.78	F	C
	ATOM	6762	O	ARG	F	317	-32.237	47.993	65.738	1.00	23.17	F	O
	ATOM	6763	N	PHE	F	318	-30.371	47.764	64.537	1.00	16.94	F	N
	ATOM	6764	CA	PHE	F	318	-30.556	46.326	64.417	1.00	15.09	F	C
45	ATOM	6765	CB	PHE	F	318	-29.633	45.740	63.345	1.00	15.85	F	C
	ATOM	6766	CG	PHE	F	318	-29.815	44.253	63.144	1.00	14.73	F	C
	ATOM	6767	CD1	PHE	F	318	-30.759	43.773	62.249	1.00	13.94	F	C
	ATOM	6768	CD2	PHE	F	318	-29.068	43.340	63.882	1.00	10.50	F	C
	ATOM	6769	CE1	PHE	F	318	-30.958	42.398	62.094	1.00	17.21	F	C
50	ATOM	6770	CE2	PHE	F	318	-29.256	41.977	63.738	1.00	12.25	F	C
	ATOM	6771	CZ	PHE	F	318	-30.200	41.498	62.846	1.00	14.51	F	C
	ATOM	6772	C	PHE	F	318	-30.306	45.585	65.727	1.00	17.12	F	C
	ATOM	6773	O	PHE	F	318	-30.983	44.596	66.046	1.00	17.07	F	O
	ATOM	6774	N	ILE	F	319	-29.309	46.032	66.475	1.00	15.68	F	N
55	ATOM	6775	CA	ILE	F	319	-28.999	45.388	67.729	1.00	14.92	F	C
	ATOM	6776	CB	ILE	F	319	-27.833	46.082	68.415	1.00	15.32	F	C
	ATOM	6777	CG2	ILE	F	319	-27.701	45.595	69.846	1.00	15.06	F	C
	ATOM	6778	CG1	ILE	F	319	-26.549	45.780	67.642	1.00	15.42	F	C
	ATOM	6779	CD1	ILE	F	319	-25.376	46.629	68.075	1.00	15.22	F	C
60	ATOM	6780	C	ILE	F	319	-30.237	45.445	68.615	1.00	17.91	F	C
	ATOM	6781	O	ILE	F	319	-30.662	44.423	69.154	1.00	18.17	F	O
	ATOM	6782	N	LYS	F	320	-30.821	46.637	68.740	1.00	17.44	F	N
	ATOM	6783	CA	LYS	F	320	-32.009	46.832	69.559	1.00	19.11	F	C
	ATOM	6784	CB	LYS	F	320	-32.381	48.309	69.592	1.00	19.27	F	C
65	ATOM	6785	CG	LYS	F	320	-31.382	49.159	70.337	1.00	19.41	F	C
	ATOM	6786	CD	LYS	F	320	-31.757	50.625	70.291	1.00	17.53	F	C
	ATOM	6787	CE	LYS	F	320	-30.678	51.466	70.935	1.00	17.55	F	C
	ATOM	6788	NZ	LYS	F	320	-31.243	52.695	71.510	1.00	20.02	F	N

	ATOM	6789	C	LYS	F	320	-33.200	46.013	69.072	1.00	24.27	F	C
	ATOM	6790	O	LYS	F	320	-33.956	45.465	69.877	1.00	27.07	F	O
	ATOM	6791	N	LYS	F	321	-33.379	45.933	67.759	1.00	24.92	F	N
5	ATOM	6792	CA	LYS	F	321	-34.485	45.158	67.205	1.00	25.91	F	C
	ATOM	6793	CB	LYS	F	321	-34.617	45.414	65.699	1.00	26.08	F	C
	ATOM	6794	CG	LYS	F	321	-35.889	44.860	65.089	1.00	29.25	F	C
	ATOM	6795	CD	LYS	F	321	-37.135	45.427	65.773	1.00	36.72	F	C
	ATOM	6796	CE	LYS	F	321	-38.420	45.040	65.030	1.00	39.28	F	C
10	ATOM	6797	NZ	LYS	F	321	-38.643	43.554	65.031	1.00	42.65	F	N
	ATOM	6798	C	LYS	F	321	-34.263	43.671	67.464	1.00	24.89	F	C
	ATOM	6799	O	LYS	F	321	-35.202	42.940	67.751	1.00	26.56	F	O
	ATOM	6800	N	SER	F	322	-33.019	43.220	67.371	1.00	24.03	F	N
	ATOM	6801	CA	SER	F	322	-32.734	41.816	67.606	1.00	22.06	F	C
15	ATOM	6802	CB	SER	F	322	-31.264	41.500	67.293	1.00	18.58	F	C
	ATOM	6803	OG	SER	F	322	-30.379	42.077	68.235	1.00	20.28	F	O
	ATOM	6804	C	SER	F	322	-33.063	41.440	69.045	1.00	24.91	F	C
	ATOM	6805	O	SER	F	322	-33.481	40.316	69.320	1.00	24.50	F	O
	ATOM	6806	N	TYR	F	323	-32.878	42.379	69.967	1.00	25.57	F	N
20	ATOM	6807	CA	TYR	F	323	-33.175	42.112	71.366	1.00	28.47	F	C
	ATOM	6808	CB	TYR	F	323	-32.541	43.170	72.251	1.00	30.05	F	C
	ATOM	6809	CG	TYR	F	323	-32.781	42.932	73.718	1.00	33.06	F	C
	ATOM	6810	CD1	TYR	F	323	-33.770	43.635	74.401	1.00	34.08	F	C
	ATOM	6811	CE1	TYR	F	323	-33.985	43.433	75.757	1.00	35.76	F	C
25	ATOM	6812	CD2	TYR	F	323	-32.010	42.014	74.430	1.00	34.40	F	C
	ATOM	6813	CE2	TYR	F	323	-32.215	41.803	75.785	1.00	36.12	F	C
	ATOM	6814	CZ	TYR	F	323	-33.204	42.517	76.442	1.00	37.80	F	C
	ATOM	6815	OH	TYR	F	323	-33.406	42.319	77.789	1.00	44.59	F	O
	ATOM	6816	C	TYR	F	323	-34.683	42.089	71.603	1.00	29.83	F	C
30	ATOM	6817	O	TYR	F	323	-35.186	41.312	72.408	1.00	29.27	F	O
	ATOM	6818	N	GLN	F	324	-35.403	42.945	70.888	1.00	31.61	F	N
	ATOM	6819	CA	GLN	F	324	-36.845	43.012	71.023	1.00	31.96	F	C
	ATOM	6820	CB	GLN	F	324	-37.407	44.150	70.160	1.00	34.75	F	C
	ATOM	6821	CG	GLN	F	324	-38.935	44.209	70.089	1.00	41.20	F	C
35	ATOM	6822	CD	GLN	F	324	-39.442	44.868	68.805	1.00	46.24	F	C
	ATOM	6823	OE1	GLN	F	324	-39.188	46.056	68.558	1.00	48.31	F	O
	ATOM	6824	NE2	GLN	F	324	-40.160	44.097	67.979	1.00	45.74	F	N
	ATOM	6825	C	GLN	F	324	-37.468	41.692	70.603	1.00	30.33	F	C
	ATOM	6826	O	GLN	F	324	-38.433	41.241	71.204	1.00	31.58	F	O
40	ATOM	6827	N	VAL	F	325	-36.901	41.054	69.590	1.00	28.43	F	N
	ATOM	6828	CA	VAL	F	325	-37.467	39.812	69.106	1.00	27.77	F	C
	ATOM	6829	CB	VAL	F	325	-37.679	39.873	67.551	1.00	27.71	F	C
	ATOM	6830	CG1	VAL	F	325	-38.161	41.249	67.135	1.00	27.26	F	C
	ATOM	6831	CG2	VAL	F	325	-36.402	39.530	66.837	1.00	28.13	F	C
45	ATOM	6832	C	VAL	F	325	-36.724	38.513	69.453	1.00	27.53	F	C
	ATOM	6833	O	VAL	F	325	-37.298	37.431	69.348	1.00	28.07	F	O
	ATOM	6834	N	ASP	F	326	-35.469	38.596	69.880	1.00	24.95	F	N
	ATOM	6835	CA	ASP	F	326	-34.716	37.371	70.174	1.00	23.44	F	C
	ATOM	6836	CB	ASP	F	326	-33.600	37.160	69.139	1.00	24.26	F	C
50	ATOM	6837	CG	ASP	F	326	-34.106	36.639	67.809	1.00	25.84	F	C
	ATOM	6838	OD1	ASP	F	326	-35.314	36.327	67.692	1.00	26.86	F	O
	ATOM	6839	OD2	ASP	F	326	-33.275	36.543	66.878	1.00	22.89	F	O
	ATOM	6840	C	ASP	F	326	-34.063	37.341	71.543	1.00	22.24	F	C
	ATOM	6841	O	ASP	F	326	-33.177	36.524	71.775	1.00	22.51	F	O
55	ATOM	6842	N	ALA	F	327	-34.477	38.222	72.444	1.00	23.26	F	N
	ATOM	6843	CA	ALA	F	327	-33.879	38.270	73.782	1.00	24.39	F	C
	ATOM	6844	CB	ALA	F	327	-34.703	39.180	74.684	1.00	22.42	F	C
	ATOM	6845	C	ALA	F	327	-33.732	36.885	74.425	1.00	26.02	F	C
	ATOM	6846	O	ALA	F	327	-32.797	36.638	75.185	1.00	24.93	F	O
60	ATOM	6847	N	ASP	F	328	-34.650	35.980	74.102	1.00	28.75	F	N
	ATOM	6848	CA	ASP	F	328	-34.621	34.639	74.664	1.00	30.68	F	C
	ATOM	6849	CB	ASP	F	328	-36.028	34.241	75.136	1.00	31.55	F	C
	ATOM	6850	CG	ASP	F	328	-36.535	35.114	76.280	1.00	33.55	F	C
	ATOM	6851	OD1	ASP	F	328	-35.719	35.609	77.092	1.00	34.34	F	O
65	ATOM	6852	OD2	ASP	F	328	-37.764	35.304	76.368	1.00	37.72	F	O
	ATOM	6853	C	ASP	F	328	-34.077	33.566	73.722	1.00	30.64	F	C
	ATOM	6854	O	ASP	F	328	-34.159	32.382	74.037	1.00	31.36	F	O
	ATOM	6855	N	ARG	F	329	-33.517	33.962	72.580	1.00	28.05	F	N
	ATOM	6856	CA	ARG	F	329	-32.973	32.984	71.640	1.00	25.36	F	C

5	ATOM	6857	CB	ARG	F	329	-32.889	33.577	70.227	1.00	29.45	F	C
	ATOM	6858	CG	ARG	F	329	-33.054	32.551	69.103	1.00	31.77	F	C
	ATOM	6859	CD	ARG	F	329	-31.881	32.535	68.115	1.00	30.23	F	C
	ATOM	6860	NE	ARG	F	329	-32.082	33.479	67.021	1.00	30.15	F	N
	ATOM	6861	CZ	ARG	F	329	-31.789	33.253	65.741	1.00	29.15	F	C
	ATOM	6862	NH1	ARG	F	329	-31.271	32.101	65.342	1.00	27.75	F	N
	ATOM	6863	NH2	ARG	F	329	-32.011	34.206	64.853	1.00	27.00	F	N
10	ATOM	6864	C	ARG	F	329	-31.572	32.596	72.089	1.00	25.39	F	C
	ATOM	6865	O	ARG	F	329	-30.795	33.458	72.495	1.00	24.39	F	O
	ATOM	6866	N	VAL	F	330	-31.235	31.312	72.034	1.00	22.59	F	N
	ATOM	6867	CA	VAL	F	330	-29.892	30.928	72.425	1.00	24.27	F	C
	ATOM	6868	CB	VAL	F	330	-29.718	29.408	72.586	1.00	23.58	F	C
	ATOM	6869	CG1	VAL	F	330	-28.254	29.082	72.854	1.00	17.62	F	C
	ATOM	6870	CG2	VAL	F	330	-30.577	28.914	73.735	1.00	23.90	F	C
15	ATOM	6871	C	VAL	F	330	-29.084	31.421	71.252	1.00	27.66	F	C
	ATOM	6872	O	VAL	F	330	-29.361	31.083	70.102	1.00	28.34	F	O
	ATOM	6873	N	VAL	F	331	-28.063	32.208	71.537	1.00	28.36	F	N
	ATOM	6874	CA	VAL	F	331	-27.305	32.803	70.466	1.00	29.30	F	C
	ATOM	6875	CB	VAL	F	331	-27.778	34.271	70.342	1.00	28.56	F	C
	ATOM	6876	CG1	VAL	F	331	-26.888	35.195	71.163	1.00	23.87	F	C
	ATOM	6877	CG2	VAL	F	331	-27.858	34.672	68.918	1.00	31.24	F	C
20	ATOM	6878	C	VAL	F	331	-25.798	32.729	70.640	1.00	32.20	F	C
	ATOM	6879	O	VAL	F	331	-25.049	32.989	69.709	1.00	33.88	F	O
	ATOM	6880	N	TYR	F	332	-25.355	32.349	71.830	1.00	35.62	F	N
	ATOM	6881	CA	TYR	F	332	-23.930	32.292	72.141	1.00	37.85	F	C
	ATOM	6882	CB	TYR	F	332	-23.569	33.563	72.922	1.00	36.22	F	C
	ATOM	6883	CG	TYR	F	332	-22.175	33.625	73.491	1.00	37.83	F	C
	ATOM	6884	CD1	TYR	F	332	-21.131	34.214	72.772	1.00	36.09	F	C
25	ATOM	6885	CE1	TYR	F	332	-19.848	34.326	73.315	1.00	35.10	F	C
	ATOM	6886	CD2	TYR	F	332	-21.904	33.141	74.777	1.00	41.34	F	C
	ATOM	6887	CE2	TYR	F	332	-20.624	33.247	75.336	1.00	42.01	F	C
	ATOM	6888	CZ	TYR	F	332	-19.604	33.840	74.603	1.00	41.87	F	C
	ATOM	6889	OH	TYR	F	332	-18.356	33.946	75.183	1.00	43.26	F	O
	ATOM	6890	C	TYR	F	332	-23.648	31.034	72.958	1.00	41.23	F	C
	ATOM	6891	O	TYR	F	332	-24.493	30.585	73.740	1.00	43.15	F	O
30	ATOM	6892	N	SER	F	333	-22.465	30.458	72.788	1.00	44.67	F	N
	ATOM	6893	CA	SER	F	333	-22.143	29.240	73.517	1.00	50.39	F	C
	ATOM	6894	CB	SER	F	333	-21.678	28.163	72.536	1.00	47.88	F	C
	ATOM	6895	OG	SER	F	333	-21.496	26.928	73.204	1.00	51.81	F	O
	ATOM	6896	C	SER	F	333	-21.113	29.367	74.651	1.00	55.47	F	C
	ATOM	6897	O	SER	F	333	-19.984	29.849	74.442	1.00	55.38	F	O
	ATOM	6898	N	THR	F	334	-21.518	28.932	75.851	1.00	57.60	F	N
35	ATOM	6899	CA	THR	F	334	-20.640	28.939	77.025	1.00	59.19	F	C
	ATOM	6900	CB	THR	F	334	-21.018	30.060	78.053	1.00	59.06	F	C
	ATOM	6901	OG1	THR	F	334	-19.920	30.979	78.172	1.00	57.91	F	O
	ATOM	6902	CG2	THR	F	334	-21.321	29.465	79.445	1.00	58.20	F	C
	ATOM	6903	C	THR	F	334	-20.751	27.561	77.675	1.00	59.42	F	C
	ATOM	6904	O	THR	F	334	-21.838	26.980	77.726	1.00	56.57	F	O
	ATOM	6905	N	LYS	F	335	-19.616	27.053	78.154	1.00	60.40	F	N
40	ATOM	6906	CA	LYS	F	335	-19.534	25.737	78.776	1.00	60.96	F	C
	ATOM	6907	CB	LYS	F	335	-18.293	25.652	79.668	1.00	58.80	F	C
	ATOM	6908	CG	LYS	F	335	-17.660	24.260	79.696	1.00	59.23	F	C
	ATOM	6909	CD	LYS	F	335	-18.666	23.152	80.074	1.00	58.66	F	C
	ATOM	6910	CE	LYS	F	335	-18.710	22.039	79.027	1.00	58.75	F	C
	ATOM	6911	NZ	LYS	F	335	-18.701	20.677	79.643	1.00	56.66	F	N
	ATOM	6912	C	LYS	F	335	-20.749	25.265	79.576	1.00	62.08	F	C
45	ATOM	6913	O	LYS	F	335	-21.543	24.448	79.092	1.00	64.08	F	O
	ATOM	6914	N	GLU	F	336	-20.882	25.753	80.805	1.00	63.02	F	N
	ATOM	6915	CA	GLU	F	336	-21.991	25.333	81.660	1.00	63.22	F	C
	ATOM	6916	CB	GLU	F	336	-21.846	25.941	83.066	1.00	64.79	F	C
	ATOM	6917	CG	GLU	F	336	-21.900	24.915	84.213	1.00	65.27	F	C
	ATOM	6918	CD	GLU	F	336	-21.938	23.465	83.730	1.00	66.65	F	C
	ATOM	6919	OE1	GLU	F	336	-23.054	22.921	83.539	1.00	66.80	F	O
50	ATOM	6920	OE2	GLU	F	336	-20.850	22.872	83.542	1.00	66.77	F	O
	ATOM	6921	C	GLU	F	336	-23.355	25.689	81.073	1.00	61.73	F	C
	ATOM	6922	O	GLU	F	336	-24.370	25.061	81.405	1.00	60.03	F	O
	ATOM	6923	N	LYS	F	337	-23.376	26.683	80.188	1.00	60.47	F	N
	ATOM	6924	CA	LYS	F	337	-24.632	27.102	79.577	1.00	58.65	F	C

	ATOM	6925	CB	LYS	F	337	-25.489	27.826	80.627	1.00	58.17	F	C
	ATOM	6926	CG	LYS	F	337	-26.842	28.281	80.131	1.00	55.46	F	C
	ATOM	6927	CD	LYS	F	337	-27.518	29.179	81.148	1.00	53.50	F	C
	ATOM	6928	CE	LYS	F	337	-28.769	29.808	80.553	1.00	53.75	F	C
5	ATOM	6929	NZ	LYS	F	337	-30.046	29.222	81.046	1.00	51.94	F	N
	ATOM	6930	C	LYS	F	337	-24.458	28.000	78.347	1.00	57.10	F	C
	ATOM	6931	O	LYS	F	337	-23.697	28.967	78.363	1.00	59.14	F	O
	ATOM	6932	N	ASN	F	338	-25.153	27.664	77.269	1.00	53.17	F	N
	ATOM	6933	CA	ASN	F	338	-25.095	28.484	76.072	1.00	46.82	F	C
10	ATOM	6934	CB	ASN	F	338	-25.678	27.721	74.875	1.00	48.36	F	C
	ATOM	6935	CG	ASN	F	338	-24.985	26.384	74.635	1.00	49.36	F	C
	ATOM	6936	OD1	ASN	F	338	-23.771	26.327	74.399	1.00	49.44	F	O
	ATOM	6937	ND2	ASN	F	338	-25.758	25.299	74.692	1.00	49.53	F	N
	ATOM	6938	C	ASN	F	338	-25.992	29.657	76.455	1.00	43.42	F	C
15	ATOM	6939	O	ASN	F	338	-27.059	29.449	77.030	1.00	46.14	F	O
	ATOM	6940	N	LEU	F	339	-25.566	30.879	76.160	1.00	35.99	F	N
	ATOM	6941	CA	LEU	F	339	-26.351	32.053	76.515	1.00	32.26	F	C
	ATOM	6942	CB	LEU	F	339	-25.427	33.234	76.739	1.00	31.87	F	C
	ATOM	6943	CG	LEU	F	339	-24.173	32.875	77.522	1.00	33.21	F	C
20	ATOM	6944	CD1	LEU	F	339	-23.328	34.117	77.706	1.00	34.29	F	C
	ATOM	6945	CD2	LEU	F	339	-24.569	32.285	78.867	1.00	35.86	F	C
	ATOM	6946	C	LEU	F	339	-27.403	32.477	75.531	1.00	28.85	F	C
	ATOM	6947	O	LEU	F	339	-27.262	32.265	74.337	1.00	28.83	F	O
	ATOM	6948	N	THR	F	340	-28.464	33.079	76.044	1.00	28.23	F	N
25	ATOM	6949	CA	THR	F	340	-29.503	33.601	75.183	1.00	29.14	F	C
	ATOM	6950	CB	THR	F	340	-30.867	33.646	75.893	1.00	27.91	F	C
	ATOM	6951	OG1	THR	F	340	-30.832	34.618	76.943	1.00	26.32	F	O
	ATOM	6952	CG2	THR	F	340	-31.203	32.286	76.454	1.00	25.95	F	C
	ATOM	6953	C	THR	F	340	-29.020	35.026	74.895	1.00	29.73	F	C
30	ATOM	6954	O	THR	F	340	-28.038	35.478	75.500	1.00	29.63	F	O
	ATOM	6955	N	LEU	F	341	-29.671	35.730	73.972	1.00	29.43	F	N
	ATOM	6956	CA	LEU	F	341	-29.263	37.103	73.673	1.00	29.11	F	C
	ATOM	6957	CB	LEU	F	341	-30.227	37.747	72.659	1.00	25.79	F	C
	ATOM	6958	CG	LEU	F	341	-29.830	39.122	72.094	1.00	24.74	F	C
35	ATOM	6959	CD1	LEU	F	341	-28.399	39.078	71.562	1.00	23.48	F	C
	ATOM	6960	CD2	LEU	F	341	-30.783	39.530	70.996	1.00	21.15	F	C
	ATOM	6961	C	LEU	F	341	-29.250	37.914	74.979	1.00	29.05	F	C
	ATOM	6962	O	LEU	F	341	-28.269	38.606	75.290	1.00	25.25	F	O
	ATOM	6963	N	LYS	F	342	-30.341	37.803	75.737	1.00	28.27	F	N
40	ATOM	6964	CA	LYS	F	342	-30.487	38.504	77.007	1.00	27.59	F	C
	ATOM	6965	CB	LYS	F	342	-31.801	38.080	77.679	1.00	29.72	F	C
	ATOM	6966	CG	LYS	F	342	-32.206	38.939	78.871	1.00	34.18	F	C
	ATOM	6967	CD	LYS	F	342	-33.616	38.608	79.330	1.00	35.72	F	C
	ATOM	6968	CE	LYS	F	342	-34.474	39.865	79.479	1.00	41.88	F	C
45	ATOM	6969	NZ	LYS	F	342	-35.558	39.981	78.440	1.00	44.15	F	N
	ATOM	6970	C	LYS	F	342	-29.306	38.207	77.931	1.00	25.91	F	C
	ATOM	6971	O	LYS	F	342	-28.699	39.116	78.493	1.00	25.99	F	O
	ATOM	6972	N	GLN	F	343	-28.962	36.931	78.065	1.00	24.26	F	N
	ATOM	6973	CA	GLN	F	343	-27.861	36.537	78.944	1.00	25.92	F	C
50	ATOM	6974	CB	GLN	F	343	-27.799	35.018	79.105	1.00	27.15	F	C
	ATOM	6975	CG	GLN	F	343	-28.914	34.424	79.959	1.00	29.20	F	C
	ATOM	6976	CD	GLN	F	343	-29.043	32.929	79.762	1.00	28.62	F	C
	ATOM	6977	OE1	GLN	F	343	-28.116	32.282	79.305	1.00	27.77	F	O
	ATOM	6978	NE2	GLN	F	343	-30.195	32.382	80.095	1.00	32.07	F	N
55	ATOM	6979	C	GLN	F	343	-26.502	37.023	78.488	1.00	25.55	F	C
	ATOM	6980	O	GLN	F	343	-25.640	37.332	79.303	1.00	25.33	F	O
	ATOM	6981	N	LEU	F	344	-26.283	37.063	77.184	1.00	25.66	F	N
	ATOM	6982	CA	LEU	F	344	-24.998	37.539	76.692	1.00	24.89	F	C
	ATOM	6983	CB	LEU	F	344	-24.871	37.333	75.179	1.00	25.65	F	C
60	ATOM	6984	CG	LEU	F	344	-23.692	38.069	74.525	1.00	22.92	F	C
	ATOM	6985	CD1	LEU	F	344	-22.371	37.490	75.000	1.00	20.69	F	C
	ATOM	6986	CD2	LEU	F	344	-23.797	37.955	73.023	1.00	22.61	F	C
	ATOM	6987	C	LEU	F	344	-24.849	39.022	77.020	1.00	24.21	F	C
	ATOM	6988	O	LEU	F	344	-23.753	39.481	77.324	1.00	23.91	F	O
65	ATOM	6989	N	PHE	F	345	-25.946	39.772	76.951	1.00	23.49	F	N
	ATOM	6990	CA	PHE	F	345	-25.890	41.191	77.272	1.00	25.46	F	C
	ATOM	6991	CB	PHE	F	345	-27.159	41.908	76.798	1.00	25.25	F	C
	ATOM	6992	CG	PHE	F	345	-27.102	42.324	75.358	1.00	27.61	F	C

	ATOM	6993	CD1	PHE	F	345	-26.096	43.178	74.913	1.00	28.58	F	C
	ATOM	6994	CD2	PHE	F	345	-28.018	41.824	74.432	1.00	27.15	F	C
	ATOM	6995	CE1	PHE	F	345	-26.000	43.528	73.564	1.00	27.65	F	C
	ATOM	6996	CE2	PHE	F	345	-27.928	42.166	73.089	1.00	26.84	F	C
5	ATOM	6997	CZ	PHE	F	345	-26.918	43.018	72.652	1.00	25.91	F	C
	ATOM	6998	C	PHE	F	345	-25.701	41.369	78.773	1.00	27.10	F	C
	ATOM	6999	O	PHE	F	345	-25.050	42.319	79.206	1.00	25.27	F	O
	ATOM	7000	N	ASP	F	346	-26.272	40.460	79.565	1.00	29.80	F	N
	ATOM	7001	CA	ASP	F	346	-26.115	40.516	81.023	1.00	31.46	F	C
10	ATOM	7002	CB	ASP	F	346	-26.931	39.419	81.701	1.00	36.01	F	C
	ATOM	7003	CG	ASP	F	346	-28.388	39.772	81.816	1.00	40.53	F	C
	ATOM	7004	OD1	ASP	F	346	-28.799	40.814	81.260	1.00	44.78	F	O
	ATOM	7005	OD2	ASP	F	346	-29.128	39.004	82.462	1.00	48.81	F	O
	ATOM	7006	C	ASP	F	346	-24.641	40.285	81.318	1.00	30.57	F	C
15	ATOM	7007	O	ASP	F	346	-24.008	41.038	82.059	1.00	27.23	F	O
	ATOM	7008	N	LYS	F	347	-24.104	39.229	80.717	1.00	29.91	F	N
	ATOM	7009	CA	LYS	F	347	-22.710	38.878	80.880	1.00	30.64	F	C
	ATOM	7010	CB	LYS	F	347	-22.385	37.655	80.025	1.00	34.22	F	C
	ATOM	7011	CG	LYS	F	347	-20.932	37.208	80.086	1.00	38.78	F	C
20	ATOM	7012	CD	LYS	F	347	-20.134	37.761	78.907	1.00	43.46	F	C
	ATOM	7013	CE	LYS	F	347	-19.456	36.652	78.105	1.00	45.14	F	C
	ATOM	7014	NZ	LYS	F	347	-18.881	35.593	78.987	1.00	47.17	F	N
	ATOM	7015	C	LYS	F	347	-21.829	40.051	80.467	1.00	33.86	F	C
	ATOM	7016	O	LYS	F	347	-20.727	40.234	80.986	1.00	34.97	F	O
25	ATOM	7017	N	LEU	F	348	-22.317	40.856	79.530	1.00	34.36	F	N
	ATOM	7018	CA	LEU	F	348	-21.552	42.006	79.052	1.00	33.07	F	C
	ATOM	7019	CB	LEU	F	348	-21.868	42.288	77.574	1.00	30.92	F	C
	ATOM	7020	CG	LEU	F	348	-21.318	41.293	76.556	1.00	25.84	F	C
	ATOM	7021	CD1	LEU	F	348	-21.773	41.687	75.174	1.00	25.68	F	C
30	ATOM	7022	CD2	LEU	F	348	-19.819	41.260	76.627	1.00	20.51	F	C
	ATOM	7023	C	LEU	F	348	-21.861	43.247	79.873	1.00	34.61	F	C
	ATOM	7024	O	LEU	F	348	-21.191	44.271	79.737	1.00	32.75	F	O
	ATOM	7025	N	LYS	F	349	-22.895	43.158	80.706	1.00	36.50	F	N
	ATOM	7026	CA	LYS	F	349	-23.294	44.270	81.557	1.00	37.39	F	C
35	ATOM	7027	CB	LYS	F	349	-22.077	44.726	82.383	1.00	40.43	F	C
	ATOM	7028	CG	LYS	F	349	-22.199	46.091	83.063	1.00	47.97	F	C
	ATOM	7029	CD	LYS	F	349	-21.270	47.140	82.406	1.00	49.97	F	C
	ATOM	7030	CE	LYS	F	349	-21.871	48.554	82.445	1.00	48.97	F	C
	ATOM	7031	NZ	LYS	F	349	-22.450	48.907	83.783	1.00	47.43	F	N
40	ATOM	7032	C	LYS	F	349	-23.888	45.431	80.743	1.00	36.08	F	C
	ATOM	7033	O	LYS	F	349	-23.537	46.595	80.935	1.00	35.22	F	O
	ATOM	7034	N	LEU	F	350	-24.802	45.121	79.830	1.00	35.07	F	N
	ATOM	7035	CA	LEU	F	350	-25.413	46.181	79.041	1.00	32.06	F	C
	ATOM	7036	CB	LEU	F	350	-24.718	46.331	77.689	1.00	32.66	F	C
45	ATOM	7037	CG	LEU	F	350	-23.221	46.112	77.535	1.00	34.09	F	C
	ATOM	7038	CD1	LEU	F	350	-22.922	45.609	76.122	1.00	30.77	F	C
	ATOM	7039	CD2	LEU	F	350	-22.504	47.429	77.807	1.00	32.10	F	C
	ATOM	7040	C	LEU	F	350	-26.857	45.918	78.752	1.00	29.24	F	C
	ATOM	7041	O	LEU	F	350	-27.281	44.771	78.731	1.00	30.20	F	O
50	ATOM	7042	N	HIS	F	351	-27.623	46.985	78.568	1.00	30.83	F	N
	ATOM	7043	CA	HIS	F	351	-28.998	46.805	78.148	1.00	34.61	F	C
	ATOM	7044	CB	HIS	F	351	-30.040	47.423	79.070	1.00	35.42	F	C
	ATOM	7045	CG	HIS	F	351	-31.432	47.056	78.664	1.00	37.88	F	C
	ATOM	7046	CD2	HIS	F	351	-32.202	47.499	77.640	1.00	40.16	F	C
55	ATOM	7047	ND1	HIS	F	351	-32.117	45.999	79.226	1.00	40.38	F	N
	ATOM	7048	CE1	HIS	F	351	-33.246	45.803	78.566	1.00	40.75	F	C
	ATOM	7049	NE2	HIS	F	351	-33.321	46.700	77.598	1.00	41.74	F	N
	ATOM	7050	C	HIS	F	351	-29.092	47.483	76.792	1.00	34.30	F	C
	ATOM	7051	O	HIS	F	351	-29.026	48.708	76.698	1.00	34.70	F	O
60	ATOM	7052	N	PRO	F	352	-29.262	46.689	75.728	1.00	32.50	F	N
	ATOM	7053	CD	PRO	F	352	-29.408	45.227	75.777	1.00	32.69	F	C
	ATOM	7054	CA	PRO	F	352	-29.360	47.196	74.361	1.00	32.64	F	C
	ATOM	7055	CB	PRO	F	352	-30.017	46.045	73.587	1.00	33.03	F	C
	ATOM	7056	CG	PRO	F	352	-30.279	44.951	74.607	1.00	34.95	F	C
65	ATOM	7057	C	PRO	F	352	-30.131	48.499	74.202	1.00	30.66	F	C
	ATOM	7058	O	PRO	F	352	-29.733	49.364	73.419	1.00	30.80	F	O
	ATOM	7059	N	TYR	F	353	-31.214	48.654	74.955	1.00	27.44	F	N
	ATOM	7060	CA	TYR	F	353	-32.027	49.850	74.819	1.00	27.33	F	C

	ATOM	7061	CB	TYR	F	353	-33.371	49.637	75.501	1.00	29.34	F	C
	ATOM	7062	CG	TYR	F	353	-34.200	48.557	74.826	1.00	32.50	F	C
	ATOM	7063	CD1	TYR	F	353	-33.831	48.035	73.574	1.00	31.86	F	C
5	ATOM	7064	CE1	TYR	F	353	-34.588	47.038	72.948	1.00	32.03	F	C
	ATOM	7065	CD2	TYR	F	353	-35.351	48.053	75.434	1.00	32.92	F	C
	ATOM	7066	CE2	TYR	F	353	-36.122	47.052	74.818	1.00	33.49	F	C
	ATOM	7067	CZ	TYR	F	353	-35.736	46.548	73.576	1.00	35.09	F	C
	ATOM	7068	OH	TYR	F	353	-36.496	45.558	72.973	1.00	33.97	F	O
10	ATOM	7069	C	TYR	F	353	-31.383	51.138	75.285	1.00	27.34	F	C
	ATOM	7070	O	TYR	F	353	-31.811	52.224	74.888	1.00	29.31	F	O
	ATOM	7071	N	ASP	F	354	-30.348	51.032	76.110	1.00	26.02	F	N
	ATOM	7072	CA	ASP	F	354	-29.643	52.223	76.583	1.00	25.02	F	C
	ATOM	7073	CB	ASP	F	354	-29.062	51.995	77.974	1.00	29.81	F	C
15	ATOM	7074	CG	ASP	F	354	-30.101	51.536	78.976	1.00	36.21	F	C
	ATOM	7075	OD1	ASP	F	354	-31.291	51.910	78.839	1.00	33.73	F	O
	ATOM	7076	OD2	ASP	F	354	-29.716	50.794	79.906	1.00	39.48	F	O
	ATOM	7077	C	ASP	F	354	-28.500	52.594	75.639	1.00	23.12	F	C
	ATOM	7078	O	ASP	F	354	-27.880	53.653	75.788	1.00	21.38	F	O
20	ATOM	7079	N	LEU	F	355	-28.220	51.716	74.676	1.00	20.60	F	N
	ATOM	7080	CA	LEU	F	355	-27.150	51.956	73.730	1.00	17.90	F	C
	ATOM	7081	CB	LEU	F	355	-26.996	50.763	72.806	1.00	15.81	F	C
	ATOM	7082	CG	LEU	F	355	-26.272	49.613	73.516	1.00	20.13	F	C
	ATOM	7083	CD1	LEU	F	355	-26.257	48.376	72.623	1.00	18.87	F	C
25	ATOM	7084	CD2	LEU	F	355	-24.851	50.032	73.880	1.00	15.37	F	C
	ATOM	7085	C	LEU	F	355	-27.372	53.238	72.944	1.00	16.66	F	C
	ATOM	7086	O	LEU	F	355	-28.490	53.652	72.693	1.00	15.40	F	O
	ATOM	7087	N	THR	F	356	-26.272	53.851	72.557	1.00	17.98	F	N
	ATOM	7088	CA	THR	F	356	-26.274	55.117	71.847	1.00	18.38	F	C
	ATOM	7089	CB	THR	F	356	-25.959	56.203	72.904	1.00	19.11	F	C
30	ATOM	7090	OG1	THR	F	356	-27.176	56.825	73.322	1.00	24.36	F	O
	ATOM	7091	CG2	THR	F	356	-25.003	57.200	72.416	1.00	18.40	F	C
	ATOM	7092	C	THR	F	356	-25.142	54.970	70.823	1.00	18.48	F	C
	ATOM	7093	O	THR	F	356	-24.376	54.016	70.924	1.00	16.59	F	O
35	ATOM	7094	N	VAL	F	357	-25.022	55.865	69.839	1.00	18.18	F	N
	ATOM	7095	CA	VAL	F	357	-23.901	55.709	68.918	1.00	17.45	F	C
	ATOM	7096	CB	VAL	F	357	-23.961	56.662	67.655	1.00	18.34	F	C
	ATOM	7097	CG1	VAL	F	357	-25.273	56.446	66.893	1.00	16.27	F	C
	ATOM	7098	CG2	VAL	F	357	-23.779	58.105	68.054	1.00	20.76	F	C
40	ATOM	7099	C	VAL	F	357	-22.639	55.987	69.726	1.00	15.85	F	C
	ATOM	7100	O	VAL	F	357	-21.572	55.480	69.401	1.00	16.24	F	O
	ATOM	7101	N	ASP	F	358	-22.766	56.773	70.797	1.00	14.66	F	N
	ATOM	7102	CA	ASP	F	358	-21.614	57.081	71.652	1.00	14.01	F	C
	ATOM	7103	CB	ASP	F	358	-21.980	58.090	72.745	1.00	17.28	F	C
	ATOM	7104	CG	ASP	F	358	-22.236	59.489	72.210	1.00	19.42	F	C
45	ATOM	7105	OD1	ASP	F	358	-21.663	59.863	71.157	1.00	19.74	F	O
	ATOM	7106	OD2	ASP	F	358	-23.019	60.219	72.865	1.00	23.49	F	O
	ATOM	7107	C	ASP	F	358	-21.117	55.811	72.329	1.00	13.32	F	C
	ATOM	7108	O	ASP	F	358	-19.915	55.519	72.328	1.00	15.19	F	O
50	ATOM	7109	N	SER	F	359	-22.040	55.056	72.926	1.00	15.23	F	N
	ATOM	7110	CA	SER	F	359	-21.655	53.815	73.612	1.00	16.33	F	C
	ATOM	7111	CB	SER	F	359	-22.737	53.412	74.607	1.00	14.06	F	C
	ATOM	7112	OG	SER	F	359	-24.029	53.532	74.040	1.00	18.09	F	O
	ATOM	7113	C	SER	F	359	-21.360	52.683	72.606	1.00	16.88	F	C
55	ATOM	7114	O	SER	F	359	-20.540	51.804	72.876	1.00	15.47	F	O
	ATOM	7115	N	LEU	F	360	-22.017	52.709	71.443	1.00	17.94	F	N
	ATOM	7116	CA	LEU	F	360	-21.759	51.709	70.393	1.00	17.40	F	C
	ATOM	7117	CB	LEU	F	360	-22.639	51.969	69.165	1.00	18.20	F	C
	ATOM	7118	CG	LEU	F	360	-22.421	51.055	67.949	1.00	19.78	F	C
60	ATOM	7119	CD1	LEU	F	360	-22.654	49.588	68.344	1.00	20.16	F	C
	ATOM	7120	CD2	LEU	F	360	-23.380	51.478	66.814	1.00	15.62	F	C
	ATOM	7121	C	LEU	F	360	-20.279	51.863	70.035	1.00	17.97	F	C
	ATOM	7122	O	LEU	F	360	-19.582	50.880	69.803	1.00	19.76	F	O
	ATOM	7123	N	ASP	F	361	-19.816	53.110	69.985	1.00	18.41	F	N
65	ATOM	7124	CA	ASP	F	361	-18.403	53.419	69.757	1.00	21.02	F	C
	ATOM	7125	CB	ASP	F	361	-17.621	53.106	71.053	1.00	23.19	F	C
	ATOM	7126	CG	ASP	F	361	-16.320	53.894	71.181	1.00	23.86	F	C
	ATOM	7127	OD1	ASP	F	361	-16.220	55.000	70.621	1.00	29.52	F	O
	ATOM	7128	OD2	ASP	F	361	-15.388	53.408	71.855	1.00	24.27	F	O

	ATOM	7129	C	ASP	F	361	-17.725	52.717	68.585	1.00	22.47	F	C
	ATOM	7130	O	ASP	F	361	-16.621	52.192	68.746	1.00	22.25	F	O
	ATOM	7131	N	VAL	F	362	-18.354	52.716	67.410	1.00	22.97	F	N
5	ATOM	7132	CA	VAL	F	362	-17.745	52.059	66.249	1.00	26.44	F	C
	ATOM	7133	CB	VAL	F	362	-18.729	51.077	65.546	1.00	25.40	F	C
	ATOM	7134	CG1	VAL	F	362	-19.063	49.914	66.483	1.00	24.15	F	C
	ATOM	7135	CG2	VAL	F	362	-19.988	51.814	65.108	1.00	25.06	F	C
	ATOM	7136	C	VAL	F	362	-17.218	53.053	65.212	1.00	26.24	F	C
10	ATOM	7137	O	VAL	F	362	-16.624	52.668	64.209	1.00	28.00	F	O
	ATOM	7138	N	HIS	F	363	-17.427	54.333	65.458	1.00	26.31	F	N
	ATOM	7139	CA	HIS	F	363	-16.958	55.342	64.534	1.00	27.47	F	C
	ATOM	7140	CB	HIS	F	363	-17.834	56.582	64.615	1.00	25.11	F	C
	ATOM	7141	CG	HIS	F	363	-18.068	57.235	63.292	1.00	29.56	F	C
	ATOM	7142	CD2	HIS	F	363	-18.973	56.976	62.317	1.00	28.68	F	C
15	ATOM	7143	ND1	HIS	F	363	-17.304	58.290	62.839	1.00	28.88	F	N
	ATOM	7144	CE1	HIS	F	363	-17.730	58.653	61.642	1.00	29.52	F	C
	ATOM	7145	NE2	HIS	F	363	-18.741	57.872	61.303	1.00	28.81	F	N
	ATOM	7146	C	HIS	F	363	-15.520	55.717	64.840	1.00	30.44	F	C
20	ATOM	7147	O	HIS	F	363	-15.146	55.873	66.002	1.00	29.12	F	O
	ATOM	7148	N	ALA	F	364	-14.714	55.859	63.791	1.00	32.89	F	N
	ATOM	7149	CA	ALA	F	364	-13.314	56.227	63.948	1.00	36.12	F	C
	ATOM	7150	CB	ALA	F	364	-12.572	56.029	62.629	1.00	34.99	F	C
	ATOM	7151	C	ALA	F	364	-13.211	57.682	64.408	1.00	38.55	F	C
25	ATOM	7152	O	ALA	F	364	-14.147	58.466	64.245	1.00	37.78	F	O
	ATOM	7153	N	GLY	F	365	-12.070	58.034	64.992	1.00	43.62	F	N
	ATOM	7154	CA	GLY	F	365	-11.873	59.393	65.468	1.00	49.65	F	C
	ATOM	7155	C	GLY	F	365	-10.442	59.877	65.305	1.00	53.03	F	C
	ATOM	7156	O	GLY	F	365	-9.737	59.347	64.410	1.00	55.03	F	O
30	ATOM	7157	OT	GLY	F	365	-10.019	60.785	66.067	1.00	54.78	F	O
	ATOM	7158	CB	LYS	G	378	-9.116	44.552	66.219	1.00	60.09	G	C
	ATOM	7159	CG	LYS	G	378	-9.261	43.361	67.170	1.00	62.23	G	C
	ATOM	7160	CD	LYS	G	378	-8.018	43.189	68.062	1.00	64.36	G	C
	ATOM	7161	CE	LYS	G	378	-7.127	42.022	67.610	1.00	64.56	G	C
35	ATOM	7162	NZ	LYS	G	378	-5.862	41.918	68.405	1.00	63.84	G	N
	ATOM	7163	C	LYS	G	378	-11.132	45.983	66.593	1.00	57.27	G	C
	ATOM	7164	O	LYS	G	378	-10.748	46.045	67.766	1.00	57.38	G	O
	ATOM	7165	N	LYS	G	378	-10.164	45.756	64.315	1.00	59.13	G	N
	ATOM	7166	CA	LYS	G	378	-10.433	45.053	65.604	1.00	58.44	G	C
40	ATOM	7167	N	TYR	G	379	-12.146	46.712	66.123	1.00	54.88	G	N
	ATOM	7168	CA	TYR	G	379	-12.888	47.621	66.998	1.00	51.30	G	C
	ATOM	7169	CB	TYR	G	379	-12.546	49.058	66.663	1.00	53.77	G	C
	ATOM	7170	CG	TYR	G	379	-11.230	49.386	67.317	1.00	59.01	G	C
	ATOM	7171	CD1	TYR	G	379	-10.018	49.026	66.710	1.00	60.09	G	C
45	ATOM	7172	CE1	TYR	G	379	-8.800	49.210	67.363	1.00	62.35	G	C
	ATOM	7173	CD2	TYR	G	379	-11.190	49.948	68.596	1.00	61.32	G	C
	ATOM	7174	CE2	TYR	G	379	-9.975	50.139	69.263	1.00	64.25	G	C
	ATOM	7175	CZ	TYR	G	379	-8.783	49.764	68.643	1.00	64.44	G	C
	ATOM	7176	OH	TYR	G	379	-7.586	49.916	69.318	1.00	64.35	G	O
50	ATOM	7177	C	TYR	G	379	-14.380	47.362	67.003	1.00	47.55	G	C
	ATOM	7178	O	TYR	G	379	-15.176	47.943	66.254	1.00	46.89	G	O
	ATOM	7179	N	ASN	G	380	-14.709	46.458	67.913	1.00	41.39	G	N
	ATOM	7180	CA	ASN	G	380	-16.029	45.923	68.145	1.00	34.70	G	C
	ATOM	7181	CB	ASN	G	380	-15.845	44.694	69.020	1.00	35.84	G	C
55	ATOM	7182	CG	ASN	G	380	-14.500	44.031	68.782	1.00	34.09	G	C
	ATOM	7183	OD1	ASN	G	380	-14.222	43.575	67.683	1.00	32.16	G	O
	ATOM	7184	ND2	ASN	G	380	-13.657	43.996	69.803	1.00	35.70	G	N
	ATOM	7185	C	ASN	G	380	-17.123	46.808	68.713	1.00	30.26	G	C
	ATOM	7186	O	ASN	G	380	-16.862	47.819	69.369	1.00	26.33	G	O
60	ATOM	7187	N	PRO	G	381	-18.382	46.427	68.452	1.00	26.47	G	N
	ATOM	7188	CD	PRO	G	381	-18.792	45.255	67.660	1.00	24.30	G	C
	ATOM	7189	CA	PRO	G	381	-19.534	47.177	68.948	1.00	25.10	G	C
	ATOM	7190	CB	PRO	G	381	-20.733	46.364	68.459	1.00	21.99	G	C
	ATOM	7191	CG	PRO	G	381	-20.210	45.569	67.320	1.00	23.25	G	C
65	ATOM	7192	C	PRO	G	381	-19.462	47.237	70.476	1.00	24.19	G	C
	ATOM	7193	O	PRO	G	381	-19.268	46.211	71.132	1.00	20.95	G	O
	ATOM	7194	N	VAL	G	382	-19.603	48.442	71.023	1.00	23.31	G	N
	ATOM	7195	CA	VAL	G	382	-19.558	48.664	72.461	1.00	26.86	G	C
	ATOM	7196	CB	VAL	G	382	-20.879	48.174	73.148	1.00	26.19	G	C

	ATOM	7197	CG1	VAL	G	382	-20.754	46.749	73.587	1.00	34.47	G	C
	ATOM	7198	CG2	VAL	G	382	-21.193	49.040	74.353	1.00	28.38	G	C
	ATOM	7199	C	VAL	G	382	-18.332	48.003	73.099	1.00	25.63	G	C
	ATOM	7200	O	VAL	G	382	-18.350	47.631	74.270	1.00	27.10	G	O
5	ATOM	7201	N	GLY	G	383	-17.267	47.875	72.306	1.00	25.68	G	N
	ATOM	7202	CA	GLY	G	383	-16.026	47.281	72.770	1.00	21.27	G	C
	ATOM	7203	C	GLY	G	383	-16.072	45.795	73.061	1.00	21.79	G	C
	ATOM	7204	O	GLY	G	383	-15.125	45.261	73.633	1.00	20.64	G	O
10	ATOM	7205	N	ALA	G	384	-17.147	45.118	72.662	1.00	21.35	G	N
	ATOM	7206	CA	ALA	G	384	-17.285	43.686	72.935	1.00	21.78	G	C
	ATOM	7207	CB	ALA	G	384	-18.655	43.404	73.553	1.00	16.32	G	C
	ATOM	7208	C	ALA	G	384	-17.068	42.800	71.709	1.00	21.89	G	C
	ATOM	7209	O	ALA	G	384	-17.856	42.807	70.761	1.00	24.73	G	O
	ATOM	7210	N	SER	G	385	-15.990	42.030	71.727	1.00	22.29	G	N
15	ATOM	7211	CA	SER	G	385	-15.709	41.135	70.617	1.00	23.25	G	C
	ATOM	7212	CB	SER	G	385	-14.363	40.433	70.837	1.00	21.88	G	C
	ATOM	7213	OG	SER	G	385	-14.443	39.471	71.864	1.00	29.42	G	O
	ATOM	7214	C	SER	G	385	-16.831	40.108	70.412	1.00	21.83	G	C
	ATOM	7215	O	SER	G	385	-17.021	39.618	69.306	1.00	24.10	G	O
20	ATOM	7216	N	GLU	G	386	-17.575	39.793	71.470	1.00	23.24	G	N
	ATOM	7217	CA	GLU	G	386	-18.682	38.841	71.384	1.00	22.46	G	C
	ATOM	7218	CB	GLU	G	386	-19.314	38.604	72.758	1.00	23.14	G	C
	ATOM	7219	CG	GLU	G	386	-18.442	37.843	73.731	1.00	26.31	G	C
	ATOM	7220	CD	GLU	G	386	-17.555	38.754	74.568	1.00	29.78	G	C
25	ATOM	7221	OE1	GLU	G	386	-16.879	38.237	75.477	1.00	31.51	G	O
	ATOM	7222	OE2	GLU	G	386	-17.520	39.983	74.324	1.00	29.73	G	O
	ATOM	7223	C	GLU	G	386	-19.751	39.411	70.478	1.00	22.84	G	C
	ATOM	7224	O	GLU	G	386	-20.415	38.670	69.766	1.00	23.62	G	O
	ATOM	7225	N	LEU	G	387	-19.918	40.733	70.523	1.00	22.01	G	N
30	ATOM	7226	CA	LEU	G	387	-20.930	41.410	69.729	1.00	20.90	G	C
	ATOM	7227	CB	LEU	G	387	-21.212	42.779	70.328	1.00	20.82	G	C
	ATOM	7228	CG	LEU	G	387	-21.857	42.698	71.719	1.00	21.87	G	C
	ATOM	7229	CD1	LEU	G	387	-22.100	44.101	72.247	1.00	21.57	G	C
	ATOM	7230	CD2	LEU	G	387	-23.171	41.940	71.648	1.00	23.47	G	C
35	ATOM	7231	C	LEU	G	387	-20.530	41.518	68.263	1.00	22.38	G	C
	ATOM	7232	O	LEU	G	387	-21.376	41.535	67.379	1.00	21.42	G	O
	ATOM	7233	N	ARG	G	388	-19.233	41.581	68.009	1.00	21.96	G	N
	ATOM	7234	CA	ARG	G	388	-18.744	41.619	66.645	1.00	23.26	G	C
	ATOM	7235	CB	ARG	G	388	-17.257	41.974	66.641	1.00	25.03	G	C
40	ATOM	7236	CG	ARG	G	388	-16.393	41.118	65.746	1.00	29.93	G	C
	ATOM	7237	CD	ARG	G	388	-15.733	41.955	64.674	1.00	34.36	G	C
	ATOM	7238	NE	ARG	G	388	-15.646	43.373	65.041	1.00	43.25	G	N
	ATOM	7239	CZ	ARG	G	388	-15.630	44.385	64.166	1.00	43.30	G	C
	ATOM	7240	NH1	ARG	G	388	-15.548	45.642	64.595	1.00	42.33	G	N
45	ATOM	7241	NH2	ARG	G	388	-15.702	44.147	62.859	1.00	43.38	G	N
	ATOM	7242	C	ARG	G	388	-18.977	40.219	66.053	1.00	22.16	G	C
	ATOM	7243	O	ARG	G	388	-19.455	40.070	64.925	1.00	19.88	G	O
	ATOM	7244	N	ASP	G	389	-18.651	39.200	66.838	1.00	18.35	G	N
	ATOM	7245	CA	ASP	G	389	-18.826	37.822	66.422	1.00	19.33	G	C
50	ATOM	7246	CB	ASP	G	389	-18.344	36.900	67.531	1.00	22.76	G	C
	ATOM	7247	CG	ASP	G	389	-16.830	36.875	67.649	1.00	28.38	G	C
	ATOM	7248	OD1	ASP	G	389	-16.319	36.364	68.671	1.00	33.91	G	O
	ATOM	7249	OD2	ASP	G	389	-16.144	37.360	66.725	1.00	28.21	G	O
	ATOM	7250	C	ASP	G	389	-20.275	37.480	66.086	1.00	18.39	G	C
55	ATOM	7251	O	ASP	G	389	-20.550	36.755	65.128	1.00	18.19	G	O
	ATOM	7252	N	LEU	G	390	-21.194	38.009	66.884	1.00	18.03	G	N
	ATOM	7253	CA	LEU	G	390	-22.617	37.754	66.705	1.00	17.75	G	C
	ATOM	7254	CB	LEU	G	390	-23.355	38.057	68.020	1.00	13.81	G	C
	ATOM	7255	CG	LEU	G	390	-24.890	37.966	68.041	1.00	17.92	G	C
60	ATOM	7256	CD1	LEU	G	390	-25.325	36.545	67.774	1.00	18.17	G	C
	ATOM	7257	CD2	LEU	G	390	-25.414	38.431	69.377	1.00	12.31	G	C
	ATOM	7258	C	LEU	G	390	-23.284	38.533	65.556	1.00	16.50	G	C
	ATOM	7259	O	LEU	G	390	-24.075	37.970	64.790	1.00	16.49	G	O
	ATOM	7260	N	TYR	G	391	-22.957	39.814	65.428	1.00	14.61	G	N
65	ATOM	7261	CA	TYR	G	391	-23.593	40.655	64.420	1.00	14.92	G	C
	ATOM	7262	CB	TYR	G	391	-23.911	42.030	65.034	1.00	12.87	G	C
	ATOM	7263	CG	TYR	G	391	-24.968	41.997	66.119	1.00	15.32	G	C
	ATOM	7264	CD1	TYR	G	391	-26.323	41.935	65.799	1.00	15.56	G	C

5	ATOM	7265	CE1	TYR	G	391	-27.302	41.867	66.793	1.00	14.92	G	C
	ATOM	7266	CD2	TYR	G	391	-24.611	41.995	67.477	1.00	16.66	G	C
	ATOM	7267	CE2	TYR	G	391	-25.583	41.927	68.479	1.00	14.08	G	C
	ATOM	7268	CZ	TYR	G	391	-26.917	41.862	68.131	1.00	15.55	G	C
	ATOM	7269	OH	TYR	G	391	-27.865	41.789	69.123	1.00	17.73	G	O
	ATOM	7270	C	TYR	G	391	-22.833	40.879	63.116	1.00	14.31	G	C
	ATOM	7271	O	TYR	G	391	-23.441	41.205	62.100	1.00	13.10	G	O
10	ATOM	7272	N	LEU	G	392	-21.516	40.706	63.142	1.00	14.63	G	N
	ATOM	7273	CA	LEU	G	392	-20.702	40.997	61.966	1.00	15.77	G	C
	ATOM	7274	CB	LEU	G	392	-19.801	42.202	62.264	1.00	14.16	G	C
	ATOM	7275	CG	LEU	G	392	-20.498	43.430	62.855	1.00	18.18	G	C
	ATOM	7276	CD1	LEU	G	392	-19.468	44.452	63.323	1.00	17.02	G	C
15	ATOM	7277	CD2	LEU	G	392	-21.422	44.050	61.817	1.00	16.96	G	C
	ATOM	7278	C	LEU	G	392	-19.853	39.872	61.395	1.00	16.13	G	C
	ATOM	7279	O	LEU	G	392	-18.853	40.135	60.714	1.00	16.35	G	O
	ATOM	7280	N	LYS	G	393	-20.254	38.631	61.653	1.00	16.60	G	N
	ATOM	7281	CA	LYS	G	393	-19.528	37.478	61.143	1.00	16.33	G	C
20	ATOM	7282	CB	LYS	G	393	-18.817	36.750	62.269	1.00	20.49	G	C
	ATOM	7283	CG	LYS	G	393	-17.798	37.598	62.955	1.00	24.18	G	C
	ATOM	7284	CD	LYS	G	393	-16.490	36.877	62.978	1.00	29.33	G	C
	ATOM	7285	CE	LYS	G	393	-15.347	37.842	63.182	1.00	35.37	G	C
	ATOM	7286	NZ	LYS	G	393	-14.448	37.323	64.255	1.00	42.52	G	N
25	ATOM	7287	C	LYS	G	393	-20.479	36.526	60.477	1.00	14.98	G	C
	ATOM	7288	O	LYS	G	393	-21.663	36.503	60.809	1.00	12.69	G	O
	ATOM	7289	N	THR	G	394	-19.948	35.743	59.539	1.00	15.33	G	N
	ATOM	7290	CA	THR	G	394	-20.748	34.770	58.802	1.00	17.49	G	C
	ATOM	7291	CB	THR	G	394	-20.200	34.560	57.350	1.00	12.95	G	C
30	ATOM	7292	OG1	THR	G	394	-18.859	34.072	57.408	1.00	11.81	G	O
	ATOM	7293	CG2	THR	G	394	-20.210	35.860	56.577	1.00	11.69	G	C
	ATOM	7294	C	THR	G	394	-20.772	33.417	59.532	1.00	18.83	G	C
	ATOM	7295	O	THR	G	394	-21.709	32.628	59.380	1.00	20.80	G	O
	ATOM	7296	N	ASP	G	395	-19.740	33.147	60.321	1.00	19.04	G	N
35	ATOM	7297	CA	ASP	G	395	-19.686	31.893	61.050	1.00	21.93	G	C
	ATOM	7298	CB	ASP	G	395	-18.406	31.142	60.715	1.00	25.06	G	C
	ATOM	7299	CG	ASP	G	395	-18.434	29.694	61.207	1.00	33.36	G	C
	ATOM	7300	OD1	ASP	G	395	-19.550	29.123	61.360	1.00	37.17	G	O
	ATOM	7301	OD2	ASP	G	395	-17.339	29.128	61.437	1.00	34.08	G	O
40	ATOM	7302	C	ASP	G	395	-19.765	32.093	62.558	1.00	22.04	G	C
	ATOM	7303	O	ASP	G	395	-18.884	32.698	63.161	1.00	20.92	G	O
	ATOM	7304	N	ASN	G	396	-20.830	31.589	63.161	1.00	22.30	G	N
	ATOM	7305	CA	ASN	G	396	-21.009	31.708	64.591	1.00	21.67	G	C
	ATOM	7306	CB	ASN	G	396	-21.298	33.172	64.991	1.00	18.38	G	C
45	ATOM	7307	CG	ASN	G	396	-22.581	33.716	64.399	1.00	18.65	G	C
	ATOM	7308	OD1	ASN	G	396	-22.753	34.934	64.294	1.00	23.51	G	O
	ATOM	7309	ND2	ASN	G	396	-23.488	32.834	64.019	1.00	12.69	G	N
	ATOM	7310	C	ASN	G	396	-22.130	30.780	65.007	1.00	22.72	G	C
	ATOM	7311	O	ASN	G	396	-22.595	29.978	64.194	1.00	21.85	G	O
50	ATOM	7312	N	TYR	G	397	-22.563	30.891	66.262	1.00	22.07	G	N
	ATOM	7313	CA	TYR	G	397	-23.607	30.025	66.786	1.00	21.58	G	C
	ATOM	7314	CB	TYR	G	397	-23.866	30.334	68.255	1.00	23.15	G	C
	ATOM	7315	CG	TYR	G	397	-24.711	29.279	68.907	1.00	21.67	G	C
	ATOM	7316	CD1	TYR	G	397	-26.096	29.424	68.998	1.00	21.08	G	C
55	ATOM	7317	CE1	TYR	G	397	-26.885	28.439	69.578	1.00	23.59	G	C
	ATOM	7318	CD2	TYR	G	397	-24.128	28.122	69.415	1.00	25.46	G	C
	ATOM	7319	CE2	TYR	G	397	-24.901	27.123	70.001	1.00	27.19	G	C
	ATOM	7320	CZ	TYR	G	397	-26.282	27.288	70.078	1.00	28.57	G	C
	ATOM	7321	OH	TYR	G	397	-27.060	26.297	70.640	1.00	32.58	G	O
60	ATOM	7322	C	TYR	G	397	-24.923	30.062	66.022	1.00	21.68	G	C
	ATOM	7323	O	TYR	G	397	-25.617	29.050	65.946	1.00	23.50	G	O
	ATOM	7324	N	ILE	G	398	-25.291	31.215	65.475	1.00	19.67	G	N
	ATOM	7325	CA	ILE	G	398	-26.527	31.285	64.716	1.00	18.48	G	C
	ATOM	7326	CB	ILE	G	398	-27.368	32.525	65.117	1.00	19.25	G	C
65	ATOM	7327	CG2	ILE	G	398	-27.910	32.346	66.543	1.00	16.24	G	C
	ATOM	7328	CG1	ILE	G	398	-26.520	33.790	65.038	1.00	16.94	G	C
	ATOM	7329	CD1	ILE	G	398	-27.343	35.057	65.057	1.00	16.77	G	C
	ATOM	7330	C	ILE	G	398	-26.208	31.312	63.220	1.00	19.11	G	C
	ATOM	7331	O	ILE	G	398	-26.969	31.840	62.415	1.00	22.30	G	O
	ATOM	7332	N	ASN	G	399	-25.067	30.736	62.863	1.00	19.04	G	N

	ATOM	7333	CA	ASN	G	399	-24.613	30.654	61.479	1.00	21.50	G	C
	ATOM	7334	CB	ASN	G	399	-25.399	29.564	60.753	1.00	23.24	G	C
	ATOM	7335	CG	ASN	G	399	-25.317	28.224	61.468	1.00	27.49	G	C
5	ATOM	7336	OD1	ASN	G	399	-24.221	27.709	61.720	1.00	30.86	G	O
	ATOM	7337	ND2	ASN	G	399	-26.472	27.658	61.809	1.00	25.32	G	N
	ATOM	7338	C	ASN	G	399	-24.695	31.962	60.697	1.00	22.18	G	C
	ATOM	7339	O	ASN	G	399	-25.248	32.008	59.593	1.00	23.26	G	O
	ATOM	7340	N	GLY	G	400	-24.145	33.021	61.281	1.00	18.48	G	N
10	ATOM	7341	CA	GLY	G	400	-24.139	34.314	60.635	1.00	16.85	G	C
	ATOM	7342	C	GLY	G	400	-25.467	34.891	60.199	1.00	17.20	G	C
	ATOM	7343	O	GLY	G	400	-25.499	35.770	59.342	1.00	18.23	G	O
	ATOM	7344	N	GLU	G	401	-26.563	34.446	60.793	1.00	16.96	G	N
	ATOM	7345	CA	GLU	G	401	-27.860	34.966	60.400	1.00	18.43	G	C
	ATOM	7346	CB	GLU	G	401	-28.968	34.217	61.133	1.00	19.95	G	C
15	ATOM	7347	CG	GLU	G	401	-30.313	34.884	60.944	1.00	28.01	G	C
	ATOM	7348	CD	GLU	G	401	-31.383	34.328	61.867	1.00	30.64	G	C
	ATOM	7349	OE1	GLU	G	401	-31.412	33.077	62.015	1.00	28.82	G	O
	ATOM	7350	OE2	GLU	G	401	-32.178	35.139	62.429	1.00	23.15	G	O
	ATOM	7351	C	GLU	G	401	-28.078	36.478	60.565	1.00	19.64	G	C
20	ATOM	7352	O	GLU	G	401	-28.751	37.105	59.740	1.00	22.12	G	O
	ATOM	7353	N	TYR	G	402	-27.530	37.069	61.622	1.00	19.33	G	N
	ATOM	7354	CA	TYR	G	402	-27.708	38.507	61.866	1.00	17.27	G	C
	ATOM	7355	CB	TYR	G	402	-27.220	38.880	63.275	1.00	17.22	G	C
	ATOM	7356	CG	TYR	G	402	-28.170	38.490	64.391	1.00	19.72	G	C
25	ATOM	7357	CD1	TYR	G	402	-29.396	37.892	64.109	1.00	19.18	G	C
	ATOM	7358	CE1	TYR	G	402	-30.293	37.575	65.122	1.00	20.48	G	C
	ATOM	7359	CD2	TYR	G	402	-27.859	38.757	65.727	1.00	16.53	G	C
	ATOM	7360	CE2	TYR	G	402	-28.751	38.443	66.747	1.00	19.19	G	C
	ATOM	7361	CZ	TYR	G	402	-29.968	37.856	66.435	1.00	19.42	G	C
30	ATOM	7362	OH	TYR	G	402	-30.890	37.588	67.415	1.00	19.79	G	O
	ATOM	7363	C	TYR	G	402	-26.957	39.343	60.840	1.00	15.97	G	C
	ATOM	7364	O	TYR	G	402	-27.462	40.352	60.356	1.00	14.98	G	O
	ATOM	7365	N	PHE	G	403	-25.736	38.923	60.537	1.00	15.00	G	N
	ATOM	7366	CA	PHE	G	403	-24.901	39.600	59.557	1.00	15.29	G	C
35	ATOM	7367	CB	PHE	G	403	-23.551	38.896	59.477	1.00	14.54	G	C
	ATOM	7368	CG	PHE	G	403	-22.542	39.610	58.632	1.00	15.84	G	C
	ATOM	7369	CD1	PHE	G	403	-22.548	40.998	58.541	1.00	15.77	G	C
	ATOM	7370	CD2	PHE	G	403	-21.561	38.890	57.944	1.00	14.86	G	C
	ATOM	7371	CE1	PHE	G	403	-21.590	41.666	57.777	1.00	17.99	G	C
40	ATOM	7372	CE2	PHE	G	403	-20.600	39.542	57.179	1.00	14.17	G	C
	ATOM	7373	CZ	PHE	G	403	-20.612	40.933	57.093	1.00	16.70	G	C
	ATOM	7374	C	PHE	G	403	-25.598	39.557	58.201	1.00	15.67	G	C
	ATOM	7375	O	PHE	G	403	-25.639	40.544	57.478	1.00	16.88	G	O
	ATOM	7376	N	ALA	G	404	-26.161	38.402	57.871	1.00	16.61	G	N
45	ATOM	7377	CA	ALA	G	404	-26.879	38.225	56.617	1.00	15.15	G	C
	ATOM	7378	CB	ALA	G	404	-27.391	36.794	56.498	1.00	13.06	G	C
	ATOM	7379	C	ALA	G	404	-28.039	39.191	56.550	1.00	16.30	G	C
	ATOM	7380	O	ALA	G	404	-28.232	39.867	55.544	1.00	17.53	G	O
50	ATOM	7381	N	THR	G	405	-28.813	39.260	57.627	1.00	16.86	G	N
	ATOM	7382	CA	THR	G	405	-29.975	40.141	57.681	1.00	17.22	G	C
	ATOM	7383	CB	THR	G	405	-30.773	39.913	58.979	1.00	16.81	G	C
	ATOM	7384	OG1	THR	G	405	-31.130	38.524	59.076	1.00	18.90	G	O
	ATOM	7385	CG2	THR	G	405	-32.024	40.753	58.982	1.00	11.45	G	C
	ATOM	7386	C	THR	G	405	-29.618	41.624	57.563	1.00	18.65	G	C
55	ATOM	7387	O	THR	G	405	-30.316	42.390	56.888	1.00	18.73	G	O
	ATOM	7388	N	ILE	G	406	-28.543	42.035	58.227	1.00	18.69	G	N
	ATOM	7389	CA	ILE	G	406	-28.112	43.428	58.157	1.00	19.02	G	C
	ATOM	7390	CB	ILE	G	406	-26.886	43.713	59.075	1.00	20.44	G	C
	ATOM	7391	CG2	ILE	G	406	-26.462	45.181	58.936	1.00	18.98	G	C
60	ATOM	7392	CG1	ILE	G	406	-27.250	43.455	60.540	1.00	22.81	G	C
	ATOM	7393	CD1	ILE	G	406	-26.068	43.541	61.508	1.00	18.20	G	C
	ATOM	7394	C	ILE	G	406	-27.706	43.735	56.710	1.00	17.64	G	C
	ATOM	7395	O	ILE	G	406	-28.083	44.766	56.159	1.00	15.45	G	O
	ATOM	7396	N	ILE	G	407	-26.938	42.826	56.108	1.00	17.82	G	N
65	ATOM	7397	CA	ILE	G	407	-26.472	42.979	54.726	1.00	16.83	G	C
	ATOM	7398	CB	ILE	G	407	-25.588	41.811	54.328	1.00	15.47	G	C
	ATOM	7399	CG2	ILE	G	407	-25.666	41.565	52.830	1.00	18.64	G	C
	ATOM	7400	CG1	ILE	G	407	-24.152	42.122	54.709	1.00	17.04	G	C

	ATOM	7401	CD1	ILE	G	407	-23.302	40.885	54.800	1.00	21.20	G	C
	ATOM	7402	C	ILE	G	407	-27.609	43.100	53.700	1.00	17.79	G	C
	ATOM	7403	O	ILE	G	407	-27.533	43.914	52.777	1.00	17.82	G	O
5	ATOM	7404	N	LYS	G	408	-28.664	42.308	53.868	1.00	16.72	G	N
	ATOM	7405	CA	LYS	G	408	-29.776	42.358	52.940	1.00	16.53	G	C
	ATOM	7406	CB	LYS	G	408	-30.704	41.167	53.154	1.00	17.72	G	C
	ATOM	7407	CG	LYS	G	408	-30.251	39.924	52.403	1.00	18.65	G	C
	ATOM	7408	CD	LYS	G	408	-30.205	38.737	53.325	1.00	23.68	G	C
10	ATOM	7409	CE	LYS	G	408	-31.594	38.164	53.490	1.00	26.73	G	C
	ATOM	7410	NZ	LYS	G	408	-32.274	38.129	52.157	1.00	34.76	G	N
	ATOM	7411	C	LYS	G	408	-30.528	43.659	53.097	1.00	19.17	G	C
	ATOM	7412	O	LYS	G	408	-31.149	44.158	52.138	1.00	17.25	G	O
	ATOM	7413	N	GLU	G	409	-30.470	44.218	54.304	1.00	16.98	G	N
15	ATOM	7414	CA	GLU	G	409	-31.123	45.497	54.555	1.00	15.72	G	C
	ATOM	7415	CB	GLU	G	409	-31.187	45.781	56.058	1.00	17.17	G	C
	ATOM	7416	CG	GLU	G	409	-32.051	44.777	56.824	1.00	20.84	G	C
	ATOM	7417	CD	GLU	G	409	-32.253	45.143	58.295	1.00	23.75	G	C
	ATOM	7418	OE1	GLU	G	409	-31.403	45.861	58.874	1.00	20.53	G	O
20	ATOM	7419	OE2	GLU	G	409	-33.272	44.701	58.865	1.00	23.79	G	O
	ATOM	7420	C	GLU	G	409	-30.332	46.592	53.828	1.00	13.40	G	C
	ATOM	7421	O	GLU	G	409	-30.910	47.517	53.282	1.00	13.40	G	O
	ATOM	7422	N	VAL	G	410	-29.006	46.481	53.828	1.00	14.12	G	N
	ATOM	7423	CA	VAL	G	410	-28.158	47.447	53.138	1.00	13.95	G	C
25	ATOM	7424	CB	VAL	G	410	-26.662	47.134	53.382	1.00	13.97	G	C
	ATOM	7425	CG1	VAL	G	410	-25.786	48.068	52.537	1.00	13.40	G	C
	ATOM	7426	CG2	VAL	G	410	-26.326	47.270	54.879	1.00	9.06	G	C
	ATOM	7427	C	VAL	G	410	-28.466	47.347	51.624	1.00	18.80	G	C
	ATOM	7428	O	VAL	G	410	-28.653	48.364	50.945	1.00	15.42	G	O
30	ATOM	7429	N	GLY	G	411	-28.540	46.110	51.117	1.00	19.59	G	N
	ATOM	7430	CA	GLY	G	411	-28.832	45.891	49.712	1.00	17.41	G	C
	ATOM	7431	C	GLY	G	411	-30.159	46.500	49.293	1.00	18.97	G	C
	ATOM	7432	O	GLY	G	411	-30.267	47.105	48.219	1.00	21.23	G	O
	ATOM	7433	N	ALA	G	412	-31.178	46.359	50.131	1.00	16.44	G	N
35	ATOM	7434	CA	ALA	G	412	-32.487	46.907	49.803	1.00	16.98	G	C
	ATOM	7435	CB	ALA	G	412	-33.531	46.372	50.759	1.00	14.09	G	C
	ATOM	7436	C	ALA	G	412	-32.489	48.430	49.820	1.00	17.78	G	C
	ATOM	7437	O	ALA	G	412	-33.314	49.067	49.163	1.00	16.07	G	O
	ATOM	7438	N	ASP	G	413	-31.576	49.024	50.578	1.00	17.89	G	N
40	ATOM	7439	CA	ASP	G	413	-31.511	50.481	50.634	1.00	19.37	G	C
	ATOM	7440	CB	ASP	G	413	-30.616	50.936	51.790	1.00	22.85	G	C
	ATOM	7441	CG	ASP	G	413	-31.352	50.971	53.127	1.00	26.74	G	C
	ATOM	7442	OD1	ASP	G	413	-30.680	50.977	54.187	1.00	30.37	G	O
	ATOM	7443	OD2	ASP	G	413	-32.599	50.992	53.115	1.00	26.25	G	O
45	ATOM	7444	C	ASP	G	413	-30.918	50.949	49.314	1.00	19.47	G	C
	ATOM	7445	O	ASP	G	413	-31.300	51.986	48.775	1.00	18.99	G	O
	ATOM	7446	N	LEU	G	414	-29.962	50.167	48.822	1.00	17.88	G	N
	ATOM	7447	CA	LEU	G	414	-29.276	50.414	47.560	1.00	17.06	G	C
	ATOM	7448	CB	LEU	G	414	-28.189	49.350	47.380	1.00	15.58	G	C
50	ATOM	7449	CG	LEU	G	414	-26.711	49.723	47.498	1.00	19.17	G	C
	ATOM	7450	CD1	LEU	G	414	-26.546	50.958	48.307	1.00	15.31	G	C
	ATOM	7451	CD2	LEU	G	414	-25.943	48.575	48.088	1.00	15.04	G	C
	ATOM	7452	C	LEU	G	414	-30.307	50.316	46.413	1.00	16.92	G	C
	ATOM	7453	O	LEU	G	414	-30.399	51.189	45.548	1.00	13.55	G	O
55	ATOM	7454	N	VAL	G	415	-31.084	49.241	46.421	1.00	16.16	G	N
	ATOM	7455	CA	VAL	G	415	-32.101	49.042	45.403	1.00	18.88	G	C
	ATOM	7456	CB	VAL	G	415	-32.854	47.721	45.626	1.00	18.88	G	C
	ATOM	7457	CG1	VAL	G	415	-34.088	47.657	44.735	1.00	17.53	G	C
	ATOM	7458	CG2	VAL	G	415	-31.926	46.556	45.323	1.00	16.33	G	C
60	ATOM	7459	C	VAL	G	415	-33.098	50.188	45.370	1.00	19.52	G	C
	ATOM	7460	O	VAL	G	415	-33.597	50.554	44.320	1.00	20.87	G	O
	ATOM	7461	N	ASP	G	416	-33.395	50.761	46.520	1.00	21.86	G	N
	ATOM	7462	CA	ASP	G	416	-34.335	51.871	46.572	1.00	23.70	G	C
	ATOM	7463	CB	ASP	G	416	-34.722	52.205	48.013	1.00	29.09	G	C
	ATOM	7464	CG	ASP	G	416	-35.803	51.297	48.552	1.00	41.01	G	C
65	ATOM	7465	OD1	ASP	G	416	-35.910	51.205	49.796	1.00	49.83	G	O
	ATOM	7466	OD2	ASP	G	416	-36.544	50.671	47.748	1.00	44.59	G	O
	ATOM	7467	C	ASP	G	416	-33.731	53.112	45.952	1.00	21.75	G	C
	ATOM	7468	O	ASP	G	416	-34.428	53.882	45.310	1.00	22.54	G	O

	ATOM	7469	N	ALA	G	417	-32.437	53.315	46.166	1.00	20.27	G	N
	ATOM	7470	CA	ALA	G	417	-31.752	54.487	45.633	1.00	20.21	G	C
	ATOM	7471	CB	ALA	G	417	-30.459	54.725	46.400	1.00	21.43	G	C
5	ATOM	7472	C	ALA	G	417	-31.465	54.306	44.149	1.00	19.14	G	C
	ATOM	7473	O	ALA	G	417	-31.172	55.269	43.432	1.00	18.56	G	O
	ATOM	7474	N	LYS	G	418	-31.520	53.050	43.715	1.00	18.35	G	N
	ATOM	7475	CA	LYS	G	418	-31.325	52.662	42.321	1.00	16.35	G	C
	ATOM	7476	CB	LYS	G	418	-32.422	53.300	41.455	1.00	17.88	G	C
10	ATOM	7477	CG	LYS	G	418	-32.261	53.057	39.948	1.00	19.11	G	C
	ATOM	7478	CD	LYS	G	418	-33.470	53.570	39.161	1.00	21.50	G	C
	ATOM	7479	CE	LYS	G	418	-33.427	53.109	37.703	1.00	23.86	G	C
	ATOM	7480	NZ	LYS	G	418	-34.319	53.943	36.842	1.00	25.91	G	N
	ATOM	7481	C	LYS	G	418	-29.990	52.887	41.619	1.00	15.24	G	C
15	ATOM	7482	O	LYS	G	418	-29.467	51.969	40.990	1.00	13.46	G	O
	ATOM	7483	N	TYR	G	419	-29.434	54.087	41.709	1.00	12.83	G	N
	ATOM	7484	CA	TYR	G	419	-28.206	54.370	40.969	1.00	15.22	G	C
	ATOM	7485	CB	TYR	G	419	-28.223	55.834	40.519	1.00	14.15	G	C
	ATOM	7486	CG	TYR	G	419	-29.469	56.139	39.714	1.00	16.69	G	C
20	ATOM	7487	CD1	TYR	G	419	-29.614	55.651	38.418	1.00	17.41	G	C
	ATOM	7488	CE1	TYR	G	419	-30.793	55.833	37.705	1.00	19.36	G	C
	ATOM	7489	CD2	TYR	G	419	-30.541	56.831	40.277	1.00	15.03	G	C
	ATOM	7490	CE2	TYR	G	419	-31.729	57.019	39.571	1.00	16.13	G	C
	ATOM	7491	CZ	TYR	G	419	-31.847	56.515	38.287	1.00	20.65	G	C
25	ATOM	7492	OH	TYR	G	419	-33.018	56.677	37.587	1.00	24.67	G	O
	ATOM	7493	C	TYR	G	419	-26.860	54.015	41.570	1.00	14.55	G	C
	ATOM	7494	O	TYR	G	419	-25.852	54.014	40.858	1.00	15.92	G	O
	ATOM	7495	N	GLN	G	420	-26.838	53.691	42.857	1.00	13.12	G	N
	ATOM	7496	CA	GLN	G	420	-25.596	53.317	43.519	1.00	12.90	G	C
30	ATOM	7497	CB	GLN	G	420	-25.488	54.011	44.883	1.00	17.42	G	C
	ATOM	7498	CG	GLN	G	420	-25.039	55.474	44.796	1.00	19.34	G	C
	ATOM	7499	CD	GLN	G	420	-26.111	56.355	44.193	1.00	25.46	G	C
	ATOM	7500	OE1	GLN	G	420	-25.989	56.820	43.053	1.00	26.20	G	O
	ATOM	7501	NE2	GLN	G	420	-27.180	56.586	44.954	1.00	24.18	G	N
35	ATOM	7502	C	GLN	G	420	-25.489	51.807	43.687	1.00	10.80	G	C
	ATOM	7503	O	GLN	G	420	-26.458	51.135	44.022	1.00	12.36	G	O
	ATOM	7504	N	HIS	G	421	-24.291	51.289	43.443	1.00	10.28	G	N
	ATOM	7505	CA	HIS	G	421	-23.999	49.864	43.546	1.00	9.97	G	C
	ATOM	7506	CB	HIS	G	421	-23.679	49.290	42.148	1.00	10.86	G	C
40	ATOM	7507	CG	HIS	G	421	-24.839	49.333	41.194	1.00	10.81	G	C
	ATOM	7508	CD2	HIS	G	421	-25.436	50.372	40.558	1.00	7.23	G	C
	ATOM	7509	ND1	HIS	G	421	-25.535	48.204	40.818	1.00	7.54	G	N
	ATOM	7510	CE1	HIS	G	421	-26.509	48.545	39.992	1.00	9.40	G	C
	ATOM	7511	NE2	HIS	G	421	-26.470	49.853	39.817	1.00	9.39	G	N
45	ATOM	7512	C	HIS	G	421	-22.788	49.694	44.460	1.00	9.62	G	C
	ATOM	7513	O	HIS	G	421	-22.080	50.663	44.758	1.00	7.25	G	O
	ATOM	7514	N	ALA	G	422	-22.532	48.465	44.887	1.00	10.00	G	N
	ATOM	7515	CA	ALA	G	422	-21.397	48.208	45.768	1.00	11.70	G	C
	ATOM	7516	CB	ALA	G	422	-21.852	48.303	47.251	1.00	7.67	G	C
50	ATOM	7517	C	ALA	G	422	-20.772	46.838	45.485	1.00	12.84	G	C
	ATOM	7518	O	ALA	G	422	-21.453	45.923	44.993	1.00	12.43	G	O
	ATOM	7519	N	GLU	G	423	-19.480	46.707	45.796	1.00	11.07	G	N
	ATOM	7520	CA	GLU	G	423	-18.744	45.463	45.594	1.00	12.94	G	C
	ATOM	7521	CB	GLU	G	423	-17.587	45.689	44.610	1.00	14.52	G	C
55	ATOM	7522	CG	GLU	G	423	-17.967	46.318	43.277	1.00	12.27	G	C
	ATOM	7523	CD	GLU	G	423	-16.808	46.258	42.315	1.00	13.32	G	C
	ATOM	7524	OE1	GLU	G	423	-16.643	45.231	41.610	1.00	16.70	G	O
	ATOM	7525	OE2	GLU	G	423	-16.033	47.227	42.281	1.00	14.74	G	O
	ATOM	7526	C	GLU	G	423	-18.167	44.961	46.923	1.00	13.42	G	C
60	ATOM	7527	O	GLU	G	423	-16.946	44.869	47.089	1.00	17.50	G	O
	ATOM	7528	N	PRO	G	424	-19.033	44.590	47.875	1.00	12.62	G	N
	ATOM	7529	CD	PRO	G	424	-20.507	44.571	47.804	1.00	8.59	G	C
	ATOM	7530	CA	PRO	G	424	-18.519	44.116	49.171	1.00	11.44	G	C
	ATOM	7531	CB	PRO	G	424	-19.788	43.857	49.993	1.00	12.60	G	C
65	ATOM	7532	CG	PRO	G	424	-20.895	43.705	48.966	1.00	11.88	G	C
	ATOM	7533	C	PRO	G	424	-17.578	42.908	49.169	1.00	11.55	G	C
	ATOM	7534	O	PRO	G	424	-17.755	41.936	48.424	1.00	10.02	G	O
	ATOM	7535	N	ARG	G	425	-16.585	42.976	50.045	1.00	11.84	G	N
	ATOM	7536	CA	ARG	G	425	-15.613	41.908	50.207	1.00	11.34	G	C

	ATOM	7537	CB	ARG	G	425	-14.207	42.527	50.355	1.00	13.85	G	C
	ATOM	7538	CG	ARG	G	425	-13.342	42.418	49.085	1.00	17.08	G	C
	ATOM	7539	CD	ARG	G	425	-12.816	43.756	48.538	1.00	17.36	G	C
	ATOM	7540	NE	ARG	G	425	-13.820	44.489	47.786	1.00	15.85	G	N
5	ATOM	7541	CZ	ARG	G	425	-13.592	45.355	46.788	1.00	16.38	G	C
	ATOM	7542	NH1	ARG	G	425	-12.367	45.656	46.352	1.00	8.24	G	N
	ATOM	7543	NH2	ARG	G	425	-14.630	45.987	46.260	1.00	12.86	G	N
	ATOM	7544	C	ARG	G	425	-15.981	41.037	51.434	1.00	13.50	G	C
	ATOM	7545	O	ARG	G	425	-16.225	41.556	52.528	1.00	12.11	G	O
10	ATOM	7546	N	LEU	G	426	-16.052	39.720	51.214	1.00	13.31	G	N
	ATOM	7547	CA	LEU	G	426	-16.363	38.721	52.236	1.00	11.86	G	C
	ATOM	7548	CB	LEU	G	426	-17.384	37.699	51.718	1.00	11.91	G	C
	ATOM	7549	CG	LEU	G	426	-18.846	38.110	51.513	1.00	12.83	G	C
	ATOM	7550	CD1	LEU	G	426	-19.574	36.984	50.791	1.00	11.73	G	C
15	ATOM	7551	CD2	LEU	G	426	-19.520	38.389	52.864	1.00	13.04	G	C
	ATOM	7552	C	LEU	G	426	-15.046	38.008	52.529	1.00	14.75	G	C
	ATOM	7553	O	LEU	G	426	-14.203	37.855	51.641	1.00	15.70	G	O
	ATOM	7554	N	SER	G	427	-14.865	37.567	53.770	1.00	13.83	G	N
	ATOM	7555	CA	SER	G	427	-13.618	36.916	54.147	1.00	14.94	G	C
20	ATOM	7556	CB	SER	G	427	-13.249	37.285	55.597	1.00	12.30	G	C
	ATOM	7557	OG	SER	G	427	-13.027	38.673	55.743	1.00	15.26	G	O
	ATOM	7558	C	SER	G	427	-13.536	35.402	54.037	1.00	12.73	G	C
	ATOM	7559	O	SER	G	427	-14.462	34.691	54.391	1.00	16.19	G	O
	ATOM	7560	N	ILE	G	428	-12.395	34.938	53.547	1.00	14.15	G	N
25	ATOM	7561	CA	ILE	G	428	-12.057	33.525	53.484	1.00	16.35	G	C
	ATOM	7562	CB	ILE	G	428	-12.012	32.985	52.042	1.00	15.00	G	C
	ATOM	7563	CG2	ILE	G	428	-11.133	31.726	51.980	1.00	14.12	G	C
	ATOM	7564	CG1	ILE	G	428	-13.440	32.661	51.569	1.00	13.03	G	C
	ATOM	7565	CD1	ILE	G	428	-14.069	31.409	52.218	1.00	8.61	G	C
30	ATOM	7566	C	ILE	G	428	-10.647	33.645	54.080	1.00	17.47	G	C
	ATOM	7567	O	ILE	G	428	-9.804	34.349	53.531	1.00	18.14	G	O
	ATOM	7568	N	TYR	G	429	-10.402	32.995	55.218	1.00	19.66	G	N
	ATOM	7569	CA	TYR	G	429	-9.112	33.114	55.909	1.00	20.01	G	C
	ATOM	7570	CB	TYR	G	429	-9.343	33.089	57.422	1.00	21.71	G	C
35	ATOM	7571	CG	TYR	G	429	-10.257	34.190	57.923	1.00	19.56	G	C
	ATOM	7572	CD1	TYR	G	429	-11.631	33.995	58.004	1.00	18.40	G	C
	ATOM	7573	CE1	TYR	G	429	-12.474	34.990	58.474	1.00	19.60	G	C
	ATOM	7574	CD2	TYR	G	429	-9.741	35.415	58.326	1.00	18.55	G	C
	ATOM	7575	CE2	TYR	G	429	-10.578	36.424	58.801	1.00	19.52	G	C
40	ATOM	7576	CZ	TYR	G	429	-11.938	36.204	58.872	1.00	22.23	G	C
	ATOM	7577	OH	TYR	G	429	-12.769	37.203	59.337	1.00	25.90	G	O
	ATOM	7578	C	TYR	G	429	-7.992	32.137	55.595	1.00	20.91	G	C
	ATOM	7579	O	TYR	G	429	-6.824	32.437	55.836	1.00	21.25	G	O
	ATOM	7580	N	GLY	G	430	-8.330	30.965	55.081	1.00	20.82	G	N
45	ATOM	7581	CA	GLY	G	430	-7.289	30.000	54.790	1.00	22.98	G	C
	ATOM	7582	C	GLY	G	430	-6.941	29.286	56.084	1.00	23.35	G	C
	ATOM	7583	O	GLY	G	430	-5.939	28.574	56.171	1.00	23.06	G	O
	ATOM	7584	N	ARG	G	431	-7.781	29.489	57.094	1.00	22.76	G	N
	ATOM	7585	CA	ARG	G	431	-7.590	28.869	58.400	1.00	25.58	G	C
50	ATOM	7586	CB	ARG	G	431	-8.408	29.613	59.456	1.00	28.08	G	C
	ATOM	7587	CG	ARG	G	431	-8.112	29.189	60.896	1.00	34.22	G	C
	ATOM	7588	CD	ARG	G	431	-9.277	29.516	61.834	1.00	39.13	G	C
	ATOM	7589	NE	ARG	G	431	-10.580	29.222	61.219	1.00	45.99	G	N
	ATOM	7590	CZ	ARG	G	431	-11.431	30.147	60.759	1.00	46.02	G	C
55	ATOM	7591	NH1	ARG	G	431	-11.120	31.443	60.840	1.00	43.80	G	N
	ATOM	7592	NH2	ARG	G	431	-12.595	29.779	60.218	1.00	43.72	G	N
	ATOM	7593	C	ARG	G	431	-8.029	27.409	58.357	1.00	25.13	G	C
	ATOM	7594	O	ARG	G	431	-7.375	26.525	58.901	1.00	24.23	G	O
	ATOM	7595	N	SER	G	432	-9.145	27.158	57.694	1.00	26.14	G	N
60	ATOM	7596	CA	SER	G	432	-9.655	25.807	57.583	1.00	27.30	G	C
	ATOM	7597	CB	SER	G	432	-10.772	25.601	58.597	1.00	28.33	G	C
	ATOM	7598	OG	SER	G	432	-11.682	24.630	58.112	1.00	33.36	G	O
	ATOM	7599	C	SER	G	432	-10.183	25.523	56.179	1.00	27.76	G	C
	ATOM	7600	O	SER	G	432	-10.649	26.420	55.481	1.00	28.43	G	O
65	ATOM	7601	N	PRO	G	433	-10.112	24.262	55.739	1.00	29.62	G	N
	ATOM	7602	CD	PRO	G	433	-9.540	23.090	56.430	1.00	29.01	G	C
	ATOM	7603	CA	PRO	G	433	-10.609	23.937	54.394	1.00	29.62	G	C
	ATOM	7604	CB	PRO	G	433	-10.067	22.536	54.135	1.00	30.19	G	C

	ATOM	7605	CG	PRO	G	433	-9.866	21.948	55.508	1.00	29.48	G	C
	ATOM	7606	C	PRO	G	433	-12.129	23.999	54.226	1.00	29.13	G	C
	ATOM	7607	O	PRO	G	433	-12.626	24.093	53.096	1.00	31.94	G	O
5	ATOM	7608	N	ASP	G	434	-12.867	23.960	55.333	1.00	24.08	G	N
	ATOM	7609	CA	ASP	G	434	-14.321	24.002	55.253	1.00	22.98	G	C
	ATOM	7610	CB	ASP	G	434	-14.921	23.222	56.431	1.00	29.06	G	C
	ATOM	7611	CG	ASP	G	434	-14.817	23.969	57.762	1.00	38.49	G	C
	ATOM	7612	OD1	ASP	G	434	-14.019	24.929	57.883	1.00	43.04	G	O
10	ATOM	7613	OD2	ASP	G	434	-15.548	23.587	58.702	1.00	41.08	G	O
	ATOM	7614	C	ASP	G	434	-14.947	25.404	55.168	1.00	20.26	G	C
	ATOM	7615	O	ASP	G	434	-16.169	25.540	55.093	1.00	17.27	G	O
	ATOM	7616	N	GLU	G	435	-14.111	26.442	55.145	1.00	18.34	G	N
	ATOM	7617	CA	GLU	G	435	-14.604	27.821	55.095	1.00	17.70	G	C
15	ATOM	7618	CB	GLU	G	435	-13.423	28.791	55.135	1.00	17.39	G	C
	ATOM	7619	CG	GLU	G	435	-12.705	28.807	56.468	1.00	18.64	G	C
	ATOM	7620	CD	GLU	G	435	-11.753	29.977	56.595	1.00	22.29	G	C
	ATOM	7621	OE1	GLU	G	435	-10.586	29.752	56.985	1.00	17.97	G	O
	ATOM	7622	OE2	GLU	G	435	-12.183	31.120	56.305	1.00	24.01	G	O
20	ATOM	7623	C	GLU	G	435	-15.471	28.135	53.882	1.00	15.30	G	C
	ATOM	7624	O	GLU	G	435	-16.465	28.852	53.986	1.00	15.64	G	O
	ATOM	7625	N	TRP	G	436	-15.078	27.601	52.729	1.00	17.50	G	N
	ATOM	7626	CA	TRP	G	436	-15.806	27.826	51.483	1.00	17.32	G	C
	ATOM	7627	CB	TRP	G	436	-15.031	27.233	50.307	1.00	14.33	G	C
25	ATOM	7628	CG	TRP	G	436	-13.919	28.104	49.839	1.00	11.19	G	C
	ATOM	7629	CD2	TRP	G	436	-14.042	29.293	49.044	1.00	11.91	G	C
	ATOM	7630	CE2	TRP	G	436	-12.738	29.800	48.836	1.00	10.48	G	C
	ATOM	7631	CE3	TRP	G	436	-15.132	29.978	48.486	1.00	10.83	G	C
	ATOM	7632	CD1	TRP	G	436	-12.582	27.939	50.077	1.00	13.05	G	C
30	ATOM	7633	NE1	TRP	G	436	-11.863	28.959	49.474	1.00	9.92	G	N
	ATOM	7634	CZ2	TRP	G	436	-12.493	30.963	48.091	1.00	14.37	G	C
	ATOM	7635	CZ3	TRP	G	436	-14.886	31.136	47.738	1.00	14.76	G	C
	ATOM	7636	CH2	TRP	G	436	-13.572	31.614	47.550	1.00	10.43	G	C
	ATOM	7637	C	TRP	G	436	-17.177	27.182	51.587	1.00	19.02	G	C
35	ATOM	7638	O	TRP	G	436	-18.198	27.772	51.192	1.00	19.42	G	O
	ATOM	7639	N	SER	G	437	-17.198	25.968	52.127	1.00	18.37	G	N
	ATOM	7640	CA	SER	G	437	-18.449	25.252	52.301	1.00	19.02	G	C
	ATOM	7641	CB	SER	G	437	-18.196	23.878	52.920	1.00	23.12	G	C
	ATOM	7642	OG	SER	G	437	-19.433	23.224	53.160	1.00	28.64	G	O
40	ATOM	7643	C	SER	G	437	-19.407	26.030	53.189	1.00	17.21	G	C
	ATOM	7644	O	SER	G	437	-20.597	26.147	52.881	1.00	17.81	G	O
	ATOM	7645	N	LYS	G	438	-18.889	26.558	54.295	1.00	17.50	G	N
	ATOM	7646	CA	LYS	G	438	-19.721	27.325	55.220	1.00	17.46	G	C
	ATOM	7647	CB	LYS	G	438	-18.994	27.545	56.547	1.00	18.29	G	C
45	ATOM	7648	CG	LYS	G	438	-18.748	26.270	57.311	1.00	20.31	G	C
	ATOM	7649	CD	LYS	G	438	-18.818	26.514	58.798	1.00	25.95	G	C
	ATOM	7650	CE	LYS	G	438	-17.662	25.814	59.519	1.00	34.12	G	C
	ATOM	7651	NZ	LYS	G	438	-17.777	25.891	61.019	1.00	37.40	G	N
	ATOM	7652	C	LYS	G	438	-20.136	28.670	54.643	1.00	14.82	G	C
50	ATOM	7653	O	LYS	G	438	-21.279	29.084	54.821	1.00	16.28	G	O
	ATOM	7654	N	LEU	G	439	-19.227	29.355	53.953	1.00	12.68	G	N
	ATOM	7655	CA	LEU	G	439	-19.585	30.656	53.384	1.00	14.11	G	C
	ATOM	7656	CB	LEU	G	439	-18.335	31.381	52.864	1.00	12.90	G	C
	ATOM	7657	CG	LEU	G	439	-18.512	32.857	52.444	1.00	15.96	G	C
55	ATOM	7658	CD1	LEU	G	439	-19.128	33.699	53.578	1.00	12.41	G	C
	ATOM	7659	CD2	LEU	G	439	-17.148	33.419	52.031	1.00	13.04	G	C
	ATOM	7660	C	LEU	G	439	-20.630	30.536	52.272	1.00	13.71	G	C
	ATOM	7661	O	LEU	G	439	-21.581	31.321	52.212	1.00	15.05	G	O
	ATOM	7662	N	SER	G	440	-20.475	29.544	51.394	1.00	16.58	G	N
60	ATOM	7663	CA	SER	G	440	-21.436	29.378	50.300	1.00	15.38	G	C
	ATOM	7664	CB	SER	G	440	-20.982	28.282	49.330	1.00	15.95	G	C
	ATOM	7665	OG	SER	G	440	-20.499	27.142	50.005	1.00	20.91	G	O
	ATOM	7666	C	SER	G	440	-22.824	29.061	50.837	1.00	17.28	G	C
	ATOM	7667	O	SER	G	440	-23.816	29.571	50.322	1.00	17.37	G	O
65	ATOM	7668	N	SER	G	441	-22.895	28.222	51.874	1.00	17.48	G	N
	ATOM	7669	CA	SER	G	441	-24.175	27.866	52.488	1.00	18.32	G	C
	ATOM	7670	CB	SER	G	441	-23.978	26.794	53.576	1.00	18.62	G	C
	ATOM	7671	OG	SER	G	441	-23.580	25.549	53.019	1.00	23.96	G	O
	ATOM	7672	C	SER	G	441	-24.815	29.105	53.110	1.00	16.74	G	C

	ATOM	7673	O	SER	G	441	-26.030	29.322	53.001	1.00	19.02	G	O
	ATOM	7674	N	TRP	G	442	-23.991	29.916	53.767	1.00	16.51	G	N
	ATOM	7675	CA	TRP	G	442	-24.458	31.143	54.408	1.00	15.76	G	C
5	ATOM	7676	CB	TRP	G	442	-23.267	31.843	55.105	1.00	15.55	G	C
	ATOM	7677	CG	TRP	G	442	-23.561	33.240	55.609	1.00	19.22	G	C
	ATOM	7678	CD2	TRP	G	442	-23.281	34.491	54.938	1.00	21.36	G	C
	ATOM	7679	CE2	TRP	G	442	-23.793	35.529	55.761	1.00	19.99	G	C
	ATOM	7680	CE3	TRP	G	442	-22.655	34.834	53.725	1.00	20.16	G	C
10	ATOM	7681	CD1	TRP	G	442	-24.202	33.569	56.771	1.00	18.55	G	C
	ATOM	7682	NE1	TRP	G	442	-24.344	34.936	56.868	1.00	21.09	G	N
	ATOM	7683	CZ2	TRP	G	442	-23.699	36.892	55.414	1.00	17.50	G	C
	ATOM	7684	CZ3	TRP	G	442	-22.561	36.198	53.374	1.00	21.74	G	C
	ATOM	7685	CH2	TRP	G	442	-23.085	37.208	54.223	1.00	19.89	G	C
	ATOM	7686	C	TRP	G	442	-25.077	32.065	53.352	1.00	15.60	G	C
15	ATOM	7687	O	TRP	G	442	-26.166	32.615	53.524	1.00	13.60	G	O
	ATOM	7688	N	PHE	G	443	-24.361	32.221	52.245	1.00	18.89	G	N
	ATOM	7689	CA	PHE	G	443	-24.793	33.090	51.159	1.00	16.29	G	C
	ATOM	7690	CB	PHE	G	443	-23.639	33.226	50.149	1.00	20.00	G	C
	ATOM	7691	CG	PHE	G	443	-23.873	34.270	49.084	1.00	20.35	G	C
20	ATOM	7692	CD1	PHE	G	443	-24.588	33.956	47.923	1.00	22.11	G	C
	ATOM	7693	CD2	PHE	G	443	-23.379	35.558	49.237	1.00	17.95	G	C
	ATOM	7694	CE1	PHE	G	443	-24.805	34.914	46.927	1.00	20.92	G	C
	ATOM	7695	CE2	PHE	G	443	-23.590	36.521	48.252	1.00	20.83	G	C
	ATOM	7696	CZ	PHE	G	443	-24.305	36.198	47.095	1.00	20.36	G	C
25	ATOM	7697	C	PHE	G	443	-26.057	32.598	50.464	1.00	16.97	G	C
	ATOM	7698	O	PHE	G	443	-27.019	33.360	50.279	1.00	17.73	G	O
	ATOM	7699	N	VAL	G	444	-26.064	31.326	50.078	1.00	17.19	G	N
	ATOM	7700	CA	VAL	G	444	-27.208	30.754	49.372	1.00	16.82	G	C
	ATOM	7701	CB	VAL	G	444	-26.850	29.383	48.787	1.00	19.54	G	C
30	ATOM	7702	CG1	VAL	G	444	-28.053	28.791	48.089	1.00	18.37	G	C
	ATOM	7703	CG2	VAL	G	444	-25.685	29.524	47.801	1.00	17.89	G	C
	ATOM	7704	C	VAL	G	444	-28.430	30.609	50.260	1.00	20.05	G	C
	ATOM	7705	O	VAL	G	444	-29.529	31.034	49.893	1.00	17.06	G	O
	ATOM	7706	N	ARG	G	445	-28.245	30.021	51.441	1.00	22.43	G	N
35	ATOM	7707	CA	ARG	G	445	-29.363	29.829	52.362	1.00	22.18	G	C
	ATOM	7708	CB	ARG	G	445	-28.907	29.040	53.574	1.00	24.12	G	C
	ATOM	7709	CG	ARG	G	445	-28.972	27.552	53.358	1.00	29.40	G	C
	ATOM	7710	CD	ARG	G	445	-27.848	26.851	54.070	1.00	34.25	G	C
	ATOM	7711	NE	ARG	G	445	-27.467	25.628	53.382	1.00	37.96	G	N
40	ATOM	7712	CZ	ARG	G	445	-27.199	24.486	53.995	1.00	40.14	G	C
	ATOM	7713	NH1	ARG	G	445	-27.267	24.399	55.316	1.00	42.93	G	N
	ATOM	7714	NH2	ARG	G	445	-26.872	23.428	53.288	1.00	40.75	G	N
	ATOM	7715	C	ARG	G	445	-30.031	31.120	52.811	1.00	23.26	G	C
	ATOM	7716	O	ARG	G	445	-31.250	31.170	52.974	1.00	24.25	G	O
45	ATOM	7717	N	ASN	G	446	-29.249	32.172	53.020	1.00	22.11	G	N
	ATOM	7718	CA	ASN	G	446	-29.834	33.438	53.436	1.00	20.70	G	C
	ATOM	7719	CB	ASN	G	446	-28.822	34.240	54.259	1.00	22.03	G	C
	ATOM	7720	CG	ASN	G	446	-28.609	33.658	55.654	1.00	21.44	G	C
	ATOM	7721	OD1	ASN	G	446	-27.596	33.003	55.927	1.00	20.27	G	O
50	ATOM	7722	ND2	ASN	G	446	-29.561	33.903	56.545	1.00	19.54	G	N
	ATOM	7723	C	ASN	G	446	-30.287	34.244	52.211	1.00	20.35	G	C
	ATOM	7724	O	ASN	G	446	-30.819	35.352	52.341	1.00	18.70	G	O
	ATOM	7725	N	ARG	G	447	-30.088	33.666	51.028	1.00	21.31	G	N
	ATOM	7726	CA	ARG	G	447	-30.463	34.307	49.773	1.00	24.29	G	C
55	ATOM	7727	CB	ARG	G	447	-31.998	34.339	49.592	1.00	25.03	G	C
	ATOM	7728	CG	ARG	G	447	-32.726	33.069	50.057	1.00	31.47	G	C
	ATOM	7729	CD	ARG	G	447	-33.081	32.116	48.927	1.00	35.30	G	C
	ATOM	7730	NE	ARG	G	447	-33.878	32.763	47.884	1.00	41.12	G	N
	ATOM	7731	CZ	ARG	G	447	-33.990	32.301	46.639	1.00	43.29	G	C
60	ATOM	7732	NH1	ARG	G	447	-33.362	31.184	46.276	1.00	43.78	G	N
	ATOM	7733	NH2	ARG	G	447	-34.718	32.964	45.746	1.00	45.08	G	N
	ATOM	7734	C	ARG	G	447	-29.905	35.723	49.731	1.00	22.85	G	C
	ATOM	7735	O	ARG	G	447	-30.642	36.697	49.631	1.00	21.32	G	O
	ATOM	7736	N	ILE	G	448	-28.592	35.829	49.846	1.00	24.39	G	N
65	ATOM	7737	CA	ILE	G	448	-27.960	37.127	49.787	1.00	26.04	G	C
	ATOM	7738	CB	ILE	G	448	-26.607	37.113	50.526	1.00	24.22	G	C
	ATOM	7739	CG2	ILE	G	448	-25.816	38.372	50.234	1.00	24.96	G	C
	ATOM	7740	CG1	ILE	G	448	-26.853	37.024	52.026	1.00	24.10	G	C

	ATOM	7741	CD1	ILE	G	448	-25.949	36.061	52.689	1.00	28.25	G	C
	ATOM	7742	C	ILE	G	448	-27.771	37.374	48.290	1.00	27.78	G	C
	ATOM	7743	O	ILE	G	448	-27.063	36.654	47.588	1.00	32.29	G	O
5	ATOM	7744	N	TYR	G	449	-28.461	38.364	47.780	1.00	28.16	G	N
	ATOM	7745	CA	TYR	G	449	-28.338	38.675	46.380	1.00	26.19	G	C
	ATOM	7746	CB	TYR	G	449	-28.883	37.556	45.483	1.00	27.21	G	C
	ATOM	7747	CG	TYR	G	449	-29.213	38.102	44.116	1.00	27.29	G	C
	ATOM	7748	CD1	TYR	G	449	-28.228	38.211	43.132	1.00	26.65	G	C
10	ATOM	7749	CE1	TYR	G	449	-28.479	38.876	41.942	1.00	26.97	G	C
	ATOM	7750	CD2	TYR	G	449	-30.461	38.662	43.862	1.00	27.12	G	C
	ATOM	7751	CE2	TYR	G	449	-30.722	39.329	42.677	1.00	29.50	G	C
	ATOM	7752	CZ	TYR	G	449	-29.729	39.438	41.725	1.00	29.30	G	C
	ATOM	7753	OH	TYR	G	449	-29.998	40.132	40.571	1.00	34.24	G	O
15	ATOM	7754	C	TYR	G	449	-29.182	39.903	46.226	1.00	24.01	G	C
	ATOM	7755	O	TYR	G	449	-30.367	39.890	46.526	1.00	27.42	G	O
	ATOM	7756	N	SER	G	450	-28.554	40.971	45.780	1.00	21.42	G	N
	ATOM	7757	CA	SER	G	450	-29.233	42.233	45.580	1.00	20.17	G	C
	ATOM	7758	CB	SER	G	450	-28.715	43.264	46.606	1.00	18.67	G	C
20	ATOM	7759	OG	SER	G	450	-28.834	44.616	46.162	1.00	25.05	G	O
	ATOM	7760	C	SER	G	450	-28.817	42.591	44.162	1.00	19.45	G	C
	ATOM	7761	O	SER	G	450	-27.721	42.229	43.724	1.00	20.06	G	O
	ATOM	7762	N	SER	G	451	-29.689	43.265	43.430	1.00	17.61	G	N
	ATOM	7763	CA	SER	G	451	-29.346	43.623	42.077	1.00	19.46	G	C
25	ATOM	7764	CB	SER	G	451	-30.604	43.998	41.308	1.00	18.86	G	C
	ATOM	7765	OG	SER	G	451	-31.239	45.064	41.965	1.00	27.67	G	O
	ATOM	7766	C	SER	G	451	-28.351	44.784	42.091	1.00	19.14	G	C
	ATOM	7767	O	SER	G	451	-27.821	45.160	41.047	1.00	21.67	G	O
	ATOM	7768	N	ASN	G	452	-28.078	45.341	43.273	1.00	17.71	G	N
30	ATOM	7769	CA	ASN	G	452	-27.139	46.459	43.363	1.00	14.79	G	C
	ATOM	7770	CB	ASN	G	452	-27.809	47.671	43.992	1.00	13.17	G	C
	ATOM	7771	CG	ASN	G	452	-28.772	48.367	43.043	1.00	15.01	G	C
	ATOM	7772	OD1	ASN	G	452	-29.743	47.767	42.560	1.00	13.53	G	O
	ATOM	7773	ND2	ASN	G	452	-28.510	49.652	42.778	1.00	12.83	G	N
35	ATOM	7774	C	ASN	G	452	-25.856	46.135	44.121	1.00	14.98	G	C
	ATOM	7775	O	ASN	G	452	-25.144	47.043	44.575	1.00	13.00	G	O
	ATOM	7776	N	MET	G	453	-25.551	44.841	44.230	1.00	13.20	G	N
	ATOM	7777	CA	MET	G	453	-24.344	44.390	44.905	1.00	12.10	G	C
	ATOM	7778	CB	MET	G	453	-24.652	43.902	46.325	1.00	11.29	G	C
40	ATOM	7779	CG	MET	G	453	-24.943	44.981	47.345	1.00	17.63	G	C
	ATOM	7780	SD	MET	G	453	-25.154	44.291	49.023	1.00	22.06	G	S
	ATOM	7781	CE	MET	G	453	-24.616	45.665	49.975	1.00	23.57	G	C
	ATOM	7782	C	MET	G	453	-23.750	43.218	44.166	1.00	13.20	G	C
	ATOM	7783	O	MET	G	453	-24.486	42.326	43.747	1.00	13.93	G	O
45	ATOM	7784	N	THR	G	454	-22.428	43.231	43.996	1.00	11.84	G	N
	ATOM	7785	CA	THR	G	454	-21.709	42.115	43.397	1.00	12.18	G	C
	ATOM	7786	CB	THR	G	454	-21.041	42.455	42.023	1.00	12.72	G	C
	ATOM	7787	OG1	THR	G	454	-20.290	43.672	42.099	1.00	14.77	G	O
	ATOM	7788	CG2	THR	G	454	-22.127	42.575	40.959	1.00	7.66	G	C
50	ATOM	7789	C	THR	G	454	-20.694	41.771	44.486	1.00	12.97	G	C
	ATOM	7790	O	THR	G	454	-20.397	42.613	45.334	1.00	14.53	G	O
	ATOM	7791	N	TRP	G	455	-20.169	40.548	44.475	1.00	13.65	G	N
	ATOM	7792	CA	TRP	G	455	-19.294	40.095	45.543	1.00	13.83	G	C
	ATOM	7793	CB	TRP	G	455	-19.988	38.927	46.271	1.00	12.74	G	C
55	ATOM	7794	CG	TRP	G	455	-21.334	39.327	46.814	1.00	13.31	G	C
	ATOM	7795	CD2	TRP	G	455	-21.597	39.875	48.112	1.00	15.25	G	C
	ATOM	7796	CE2	TRP	G	455	-22.971	40.234	48.150	1.00	14.70	G	C
	ATOM	7797	CE3	TRP	G	455	-20.805	40.103	49.247	1.00	11.76	G	C
	ATOM	7798	CD1	TRP	G	455	-22.531	39.362	46.134	1.00	14.99	G	C
60	ATOM	7799	NE1	TRP	G	455	-23.520	39.911	46.933	1.00	14.91	G	N
	ATOM	7800	CZ2	TRP	G	455	-23.559	40.806	49.280	1.00	12.94	G	C
	ATOM	7801	CZ3	TRP	G	455	-21.399	40.675	50.368	1.00	13.75	G	C
	ATOM	7802	CH2	TRP	G	455	-22.759	41.018	50.373	1.00	12.68	G	C
	ATOM	7803	C	TRP	G	455	-17.871	39.704	45.208	1.00	16.85	G	C
65	ATOM	7804	O	TRP	G	455	-17.575	39.244	44.113	1.00	14.60	G	O
	ATOM	7805	N	MET	G	456	-16.995	39.891	46.193	1.00	16.75	G	N
	ATOM	7806	CA	MET	G	456	-15.588	39.549	46.072	1.00	15.34	G	C
	ATOM	7807	CB	MET	G	456	-14.744	40.806	45.917	1.00	14.00	G	C
	ATOM	7808	CG	MET	G	456	-15.026	41.556	44.627	1.00	14.55	G	C

	ATOM	7809	SD	MET	G	456	-13.947	42.997	44.405	1.00	19.96	G	S
	ATOM	7810	CE	MET	G	456	-12.293	42.272	44.704	1.00	10.98	G	C
	ATOM	7811	C	MET	G	456	-15.197	38.835	47.344	1.00	15.26	G	C
	ATOM	7812	O	MET	G	456	-15.946	38.852	48.332	1.00	15.04	G	O
5	ATOM	7813	N	ILE	G	457	-14.038	38.190	47.319	1.00	15.82	G	N
	ATOM	7814	CA	ILE	G	457	-13.542	37.492	48.499	1.00	16.60	G	C
	ATOM	7815	CB	ILE	G	457	-13.389	35.950	48.254	1.00	18.04	G	C
	ATOM	7816	CG2	ILE	G	457	-12.383	35.338	49.230	1.00	13.00	G	C
	ATOM	7817	CG1	ILE	G	457	-14.729	35.258	48.509	1.00	18.59	G	C
10	ATOM	7818	CD1	ILE	G	457	-15.300	34.686	47.302	1.00	26.79	G	C
	ATOM	7819	C	ILE	G	457	-12.198	38.098	48.860	1.00	17.14	G	C
	ATOM	7820	O	ILE	G	457	-11.357	38.308	47.994	1.00	15.87	G	O
	ATOM	7821	N	GLN	G	458	-12.018	38.434	50.134	1.00	16.45	G	N
	ATOM	7822	CA	GLN	G	458	-10.741	38.978	50.573	1.00	15.96	G	C
15	ATOM	7823	CB	GLN	G	458	-10.937	40.275	51.360	1.00	16.33	G	C
	ATOM	7824	CG	GLN	G	458	-11.669	40.088	52.665	1.00	18.11	G	C
	ATOM	7825	CD	GLN	G	458	-11.911	41.395	53.394	1.00	18.49	G	C
	ATOM	7826	OE1	GLN	G	458	-11.894	42.465	52.807	1.00	13.83	G	O
	ATOM	7827	NE2	GLN	G	458	-12.143	41.302	54.691	1.00	20.22	G	N
20	ATOM	7828	C	GLN	G	458	-10.077	37.947	51.468	1.00	14.80	G	C
	ATOM	7829	O	GLN	G	458	-10.731	37.325	52.305	1.00	14.51	G	O
	ATOM	7830	N	VAL	G	459	-8.792	37.719	51.262	1.00	14.48	G	N
	ATOM	7831	CA	VAL	G	459	-8.119	36.799	52.136	1.00	16.32	G	C
	ATOM	7832	CB	VAL	G	459	-7.584	35.502	51.396	1.00	18.67	G	C
25	ATOM	7833	CG1	VAL	G	459	-8.273	35.321	50.058	1.00	15.56	G	C
	ATOM	7834	CG2	VAL	G	459	-6.085	35.519	51.286	1.00	21.37	G	C
	ATOM	7835	C	VAL	G	459	-7.030	37.603	52.839	1.00	14.63	G	C
	ATOM	7836	O	VAL	G	459	-6.133	38.155	52.221	1.00	15.26	G	O
	ATOM	7837	N	PRO	G	460	-7.166	37.750	54.162	1.00	18.36	G	N
30	ATOM	7838	CD	PRO	G	460	-8.306	37.238	54.948	1.00	18.29	G	C
	ATOM	7839	CA	PRO	G	460	-6.220	38.486	55.003	1.00	15.36	G	C
	ATOM	7840	CB	PRO	G	460	-6.883	38.467	56.376	1.00	14.01	G	C
	ATOM	7841	CG	PRO	G	460	-8.337	38.170	56.099	1.00	19.03	G	C
	ATOM	7842	C	PRO	G	460	-4.840	37.839	55.019	1.00	16.04	G	C
35	ATOM	7843	O	PRO	G	460	-4.724	36.607	55.037	1.00	16.54	G	O
	ATOM	7844	N	ARG	G	461	-3.792	38.656	54.999	1.00	14.53	G	N
	ATOM	7845	CA	ARG	G	461	-2.434	38.123	55.010	1.00	16.97	G	C
	ATOM	7846	CB	ARG	G	461	-1.479	39.081	54.285	1.00	14.15	G	C
	ATOM	7847	CG	ARG	G	461	-1.909	39.469	52.873	1.00	15.12	G	C
40	ATOM	7848	CD	ARG	G	461	-0.806	40.210	52.116	1.00	13.91	G	C
	ATOM	7849	NE	ARG	G	461	-0.582	41.558	52.649	1.00	15.51	G	N
	ATOM	7850	CZ	ARG	G	461	-1.334	42.617	52.370	1.00	13.75	G	C
	ATOM	7851	NH1	ARG	G	461	-2.385	42.519	51.556	1.00	17.03	G	N
	ATOM	7852	NH2	ARG	G	461	-1.027	43.786	52.896	1.00	17.98	G	N
45	ATOM	7853	C	ARG	G	461	-1.999	37.930	56.473	1.00	20.36	G	C
	ATOM	7854	O	ARG	G	461	-1.141	38.659	57.006	1.00	21.24	G	O
	ATOM	7855	N	ILE	G	462	-2.596	36.937	57.121	1.00	20.25	G	N
	ATOM	7856	CA	ILE	G	462	-2.298	36.689	58.513	1.00	20.24	G	C
	ATOM	7857	CB	ILE	G	462	-3.503	37.076	59.423	1.00	18.31	G	C
50	ATOM	7858	CG2	ILE	G	462	-3.894	38.540	59.180	1.00	17.88	G	C
	ATOM	7859	CG1	ILE	G	462	-4.688	36.146	59.161	1.00	15.76	G	C
	ATOM	7860	CD1	ILE	G	462	-5.957	36.547	59.905	1.00	12.72	G	C
	ATOM	7861	C	ILE	G	462	-1.901	35.252	58.794	1.00	22.37	G	C
	ATOM	7862	O	ILE	G	462	-2.342	34.661	59.783	1.00	24.54	G	O
55	ATOM	7863	N	TYR	G	463	-1.070	34.689	57.927	1.00	22.14	G	N
	ATOM	7864	CA	TYR	G	463	-0.590	33.329	58.128	1.00	21.65	G	C
	ATOM	7865	CB	TYR	G	463	0.365	32.930	57.006	1.00	19.09	G	C
	ATOM	7866	CG	TYR	G	463	1.392	31.893	57.423	1.00	19.58	G	C
	ATOM	7867	CD1	TYR	G	463	1.096	30.532	57.360	1.00	16.43	G	C
60	ATOM	7868	CE1	TYR	G	463	2.022	29.568	57.775	1.00	18.09	G	C
	ATOM	7869	CD2	TYR	G	463	2.647	32.279	57.909	1.00	17.81	G	C
	ATOM	7870	CE2	TYR	G	463	3.583	31.330	58.325	1.00	17.44	G	C
	ATOM	7871	CZ	TYR	G	463	3.265	29.973	58.257	1.00	22.61	G	C
	ATOM	7872	OH	TYR	G	463	4.199	29.020	58.657	1.00	23.53	G	O
65	ATOM	7873	C	TYR	G	463	0.154	33.239	59.473	1.00	22.89	G	C
	ATOM	7874	O	TYR	G	463	0.034	32.244	60.199	1.00	20.38	G	O
	ATOM	7875	N	ASP	G	464	0.917	34.280	59.803	1.00	23.08	G	N
	ATOM	7876	CA	ASP	G	464	1.677	34.280	61.051	1.00	24.30	G	C

	ATOM	7877	CB	ASP	G	464	2.530	35.554	61.178	1.00	23.11	G	C
	ATOM	7878	CG	ASP	G	464	1.737	36.832	60.944	1.00	26.23	G	C
	ATOM	7879	OD1	ASP	G	464	2.249	37.903	61.322	1.00	30.12	G	O
	ATOM	7880	OD2	ASP	G	464	0.621	36.783	60.389	1.00	27.18	G	O
5	ATOM	7881	C	ASP	G	464	0.771	34.121	62.263	1.00	25.79	G	C
	ATOM	7882	O	ASP	G	464	1.131	33.432	63.217	1.00	27.23	G	O
	ATOM	7883	N	VAL	G	465	-0.403	34.747	62.224	1.00	24.78	G	N
	ATOM	7884	CA	VAL	G	465	-1.351	34.641	63.320	1.00	23.82	G	C
10	ATOM	7885	CB	VAL	G	465	-2.568	35.541	63.059	1.00	22.43	G	C
	ATOM	7886	CG1	VAL	G	465	-3.626	35.301	64.093	1.00	23.05	G	C
	ATOM	7887	CG2	VAL	G	465	-2.146	36.986	63.084	1.00	20.00	G	C
	ATOM	7888	C	VAL	G	465	-1.805	33.180	63.479	1.00	27.22	G	C
	ATOM	7889	O	VAL	G	465	-1.781	32.622	64.582	1.00	23.94	G	O
15	ATOM	7890	N	PHE	G	466	-2.207	32.560	62.368	1.00	28.17	G	N
	ATOM	7891	CA	PHE	G	466	-2.674	31.171	62.372	1.00	28.04	G	C
	ATOM	7892	CB	PHE	G	466	-3.277	30.804	61.011	1.00	25.70	G	C
	ATOM	7893	CG	PHE	G	466	-4.510	31.575	60.671	1.00	26.73	G	C
	ATOM	7894	CD1	PHE	G	466	-5.395	31.973	61.669	1.00	27.78	G	C
20	ATOM	7895	CD2	PHE	G	466	-4.799	31.897	59.354	1.00	26.67	G	C
	ATOM	7896	CE1	PHE	G	466	-6.552	32.679	61.361	1.00	28.95	G	C
	ATOM	7897	CE2	PHE	G	466	-5.953	32.604	59.033	1.00	28.30	G	C
	ATOM	7898	CZ	PHE	G	466	-6.832	32.995	60.039	1.00	29.07	G	C
	ATOM	7899	C	PHE	G	466	-1.542	30.206	62.680	1.00	29.29	G	C
25	ATOM	7900	O	PHE	G	466	-1.751	29.178	63.314	1.00	29.32	G	O
	ATOM	7901	N	ARG	G	467	-0.343	30.535	62.212	1.00	29.60	G	N
	ATOM	7902	CA	ARG	G	467	0.816	29.683	62.437	1.00	30.35	G	C
	ATOM	7903	CB	ARG	G	467	2.013	30.175	61.627	1.00	30.89	G	C
	ATOM	7904	CG	ARG	G	467	3.283	29.363	61.851	1.00	30.89	G	C
30	ATOM	7905	CD	ARG	G	467	3.016	27.869	61.684	1.00	34.03	G	C
	ATOM	7906	NE	ARG	G	467	4.218	27.054	61.852	1.00	38.15	G	N
	ATOM	7907	CZ	ARG	G	467	4.880	26.926	62.999	1.00	44.72	G	C
	ATOM	7908	NH1	ARG	G	467	4.465	27.559	64.098	1.00	48.79	G	N
	ATOM	7909	NH2	ARG	G	467	5.972	26.177	63.053	1.00	45.51	G	N
35	ATOM	7910	C	ARG	G	467	1.210	29.633	63.902	1.00	32.50	G	C
	ATOM	7911	O	ARG	G	467	1.483	28.565	64.439	1.00	33.58	G	O
	ATOM	7912	N	SER	G	468	1.249	30.794	64.546	1.00	33.43	G	N
	ATOM	7913	CA	SER	G	468	1.624	30.859	65.946	1.00	33.54	G	C
	ATOM	7914	CB	SER	G	468	1.836	32.319	66.350	1.00	33.55	G	C
40	ATOM	7915	OG	SER	G	468	0.638	33.064	66.206	1.00	41.04	G	O
	ATOM	7916	C	SER	G	468	0.584	30.185	66.848	1.00	33.07	G	C
	ATOM	7917	O	SER	G	468	0.909	29.762	67.958	1.00	33.78	G	O
	ATOM	7918	N	LYS	G	469	-0.654	30.084	66.361	1.00	32.92	G	N
	ATOM	7919	CA	LYS	G	469	-1.755	29.455	67.097	1.00	31.13	G	C
45	ATOM	7920	CB	LYS	G	469	-3.092	30.100	66.717	1.00	31.41	G	C
	ATOM	7921	CG	LYS	G	469	-3.560	31.247	67.606	1.00	33.65	G	C
	ATOM	7922	CD	LYS	G	469	-4.950	31.707	67.159	1.00	38.52	G	C
	ATOM	7923	CE	LYS	G	469	-5.307	33.090	67.692	1.00	40.70	G	C
	ATOM	7924	NZ	LYS	G	469	-4.195	34.075	67.553	1.00	40.70	G	N
50	ATOM	7925	C	LYS	G	469	-1.793	27.986	66.686	1.00	32.79	G	C
	ATOM	7926	O	LYS	G	469	-2.673	27.227	67.099	1.00	34.00	G	O
	ATOM	7927	N	ASN	G	470	-0.839	27.599	65.847	1.00	32.16	G	N
	ATOM	7928	CA	ASN	G	470	-0.752	26.238	65.337	1.00	32.57	G	C
	ATOM	7929	CB	ASN	G	470	-0.424	25.278	66.468	1.00	37.38	G	C
55	ATOM	7930	CG	ASN	G	470	0.859	25.651	67.175	1.00	42.59	G	C
	ATOM	7931	OD1	ASN	G	470	1.936	25.660	66.568	1.00	45.44	G	O
	ATOM	7932	ND2	ASN	G	470	0.758	25.976	68.469	1.00	47.64	G	N
	ATOM	7933	C	ASN	G	470	-2.025	25.797	64.635	1.00	32.86	G	C
	ATOM	7934	O	ASN	G	470	-2.460	24.651	64.761	1.00	33.72	G	O
60	ATOM	7935	N	PHE	G	471	-2.629	26.718	63.901	1.00	33.27	G	N
	ATOM	7936	CA	PHE	G	471	-3.831	26.403	63.157	1.00	32.80	G	C
	ATOM	7937	CB	PHE	G	471	-4.653	27.669	62.905	1.00	33.07	G	C
	ATOM	7938	CG	PHE	G	471	-5.584	28.013	64.027	1.00	36.10	G	C
	ATOM	7939	CD1	PHE	G	471	-5.745	27.143	65.102	1.00	38.43	G	C
65	ATOM	7940	CD2	PHE	G	471	-6.320	29.189	64.002	1.00	39.66	G	C
	ATOM	7941	CE1	PHE	G	471	-6.629	27.436	66.136	1.00	42.44	G	C
	ATOM	7942	CE2	PHE	G	471	-7.213	29.499	65.030	1.00	44.17	G	C
	ATOM	7943	CZ	PHE	G	471	-7.370	28.620	66.102	1.00	44.18	G	C
	ATOM	7944	C	PHE	G	471	-3.352	25.815	61.850	1.00	32.25	G	C

	ATOM	7945	O	PHE	G	471	-4.099	25.109	61.184	1.00	32.82	G	O
	ATOM	7946	N	LEU	G	472	-2.088	26.100	61.515	1.00	30.52	G	N
	ATOM	7947	CA	LEU	G	472	-1.457	25.640	60.268	1.00	31.48	G	C
	ATOM	7948	CB	LEU	G	472	-1.519	26.742	59.174	1.00	30.59	G	C
5	ATOM	7949	CG	LEU	G	472	-2.836	27.446	58.831	1.00	27.17	G	C
	ATOM	7950	CD1	LEU	G	472	-2.552	28.739	58.101	1.00	29.89	G	C
	ATOM	7951	CD2	LEU	G	472	-3.681	26.541	57.975	1.00	25.65	G	C
	ATOM	7952	C	LEU	G	472	-0.017	25.271	60.472	1.00	29.62	G	C
10	ATOM	7953	O	LEU	G	472	0.692	25.825	61.343	1.00	31.16	G	O
	ATOM	7954	N	PRO	G	473	0.534	24.328	59.664	1.00	27.20	G	N
	ATOM	7955	CD	PRO	G	473	-0.246	23.568	58.669	1.00	24.83	G	C
	ATOM	7956	CA	PRO	G	473	1.929	23.869	59.718	1.00	26.19	G	C
	ATOM	7957	CB	PRO	G	473	1.853	22.444	59.198	1.00	24.49	G	C
	ATOM	7958	CG	PRO	G	473	0.695	22.451	58.261	1.00	22.63	G	C
15	ATOM	7959	C	PRO	G	473	2.911	24.703	58.876	1.00	29.22	G	C
	ATOM	7960	O	PRO	G	473	4.105	24.816	59.213	1.00	27.75	G	O
	ATOM	7961	N	HIS	G	474	2.410	25.270	57.776	1.00	27.28	G	N
	ATOM	7962	CA	HIS	G	474	3.240	26.079	56.874	1.00	26.71	G	C
	ATOM	7963	CB	HIS	G	474	4.134	25.160	56.042	1.00	22.13	G	C
20	ATOM	7964	CG	HIS	G	474	3.381	24.056	55.371	1.00	24.76	G	C
	ATOM	7965	CD2	HIS	G	474	2.366	24.090	54.475	1.00	26.27	G	C
	ATOM	7966	ND1	HIS	G	474	3.582	22.725	55.668	1.00	26.75	G	N
	ATOM	7967	CE1	HIS	G	474	2.722	21.987	54.987	1.00	25.69	G	C
	ATOM	7968	NE2	HIS	G	474	1.973	22.790	54.256	1.00	26.48	G	N
25	ATOM	7969	C	HIS	G	474	2.347	26.914	55.949	1.00	26.76	G	C
	ATOM	7970	O	HIS	G	474	1.119	26.809	56.014	1.00	25.17	G	O
	ATOM	7971	N	PHE	G	475	2.958	27.727	55.086	1.00	26.08	G	N
	ATOM	7972	CA	PHE	G	475	2.189	28.581	54.176	1.00	23.68	G	C
	ATOM	7973	CB	PHE	G	475	3.095	29.633	53.534	1.00	20.30	G	C
30	ATOM	7974	CG	PHE	G	475	2.335	30.753	52.876	1.00	24.50	G	C
	ATOM	7975	CD1	PHE	G	475	2.405	30.947	51.490	1.00	23.16	G	C
	ATOM	7976	CD2	PHE	G	475	1.547	31.621	53.639	1.00	22.49	G	C
	ATOM	7977	CE1	PHE	G	475	1.700	31.994	50.868	1.00	22.19	G	C
	ATOM	7978	CE2	PHE	G	475	0.838	32.670	53.033	1.00	21.86	G	C
35	ATOM	7979	CZ	PHE	G	475	0.920	32.854	51.634	1.00	21.93	G	C
	ATOM	7980	C	PHE	G	475	1.434	27.821	53.090	1.00	20.59	G	C
	ATOM	7981	O	PHE	G	475	0.364	28.237	52.665	1.00	20.67	G	O
	ATOM	7982	N	GLY	G	476	1.996	26.702	52.649	1.00	23.28	G	N
	ATOM	7983	CA	GLY	G	476	1.349	25.903	51.620	1.00	20.90	G	C
40	ATOM	7984	C	GLY	G	476	-0.036	25.442	52.030	1.00	22.53	G	C
	ATOM	7985	O	GLY	G	476	-0.943	25.346	51.199	1.00	22.07	G	O
	ATOM	7986	N	LYS	G	477	-0.220	25.156	53.318	1.00	23.21	G	N
	ATOM	7987	CA	LYS	G	477	-1.523	24.703	53.797	1.00	19.79	G	C
	ATOM	7988	CB	LYS	G	477	-1.400	24.128	55.212	1.00	22.53	G	C
45	ATOM	7989	CG	LYS	G	477	-2.702	23.536	55.764	1.00	23.77	G	C
	ATOM	7990	CD	LYS	G	477	-3.084	22.227	55.076	1.00	24.57	G	C
	ATOM	7991	CE	LYS	G	477	-4.557	21.919	55.278	1.00	28.05	G	C
	ATOM	7992	NZ	LYS	G	477	-4.930	20.563	54.803	1.00	30.53	G	N
	ATOM	7993	C	LYS	G	477	-2.554	25.825	53.770	1.00	18.96	G	C
50	ATOM	7994	O	LYS	G	477	-3.750	25.571	53.640	1.00	20.17	G	O
	ATOM	7995	N	MET	G	478	-2.101	27.069	53.890	1.00	19.40	G	N
	ATOM	7996	CA	MET	G	478	-3.036	28.187	53.852	1.00	18.14	G	C
	ATOM	7997	CB	MET	G	478	-2.359	29.493	54.280	1.00	18.54	G	C
	ATOM	7998	CG	MET	G	478	-3.342	30.661	54.376	1.00	15.73	G	C
55	ATOM	7999	SD	MET	G	478	-2.620	32.150	55.044	1.00	21.95	G	S
	ATOM	8000	CE	MET	G	478	-3.991	33.324	54.859	1.00	14.68	G	C
	ATOM	8001	C	MET	G	478	-3.535	28.336	52.421	1.00	18.21	G	C
	ATOM	8002	O	MET	G	478	-4.736	28.514	52.177	1.00	18.47	G	O
	ATOM	8003	N	LEU	G	479	-2.589	28.264	51.484	1.00	18.96	G	N
60	ATOM	8004	CA	LEU	G	479	-2.881	28.391	50.072	1.00	16.03	G	C
	ATOM	8005	CB	LEU	G	479	-1.583	28.294	49.265	1.00	14.56	G	C
	ATOM	8006	CG	LEU	G	479	-0.667	29.530	49.279	1.00	9.63	G	C
	ATOM	8007	CD1	LEU	G	479	0.582	29.253	48.458	1.00	12.96	G	C
	ATOM	8008	CD2	LEU	G	479	-1.387	30.717	48.693	1.00	11.08	G	C
65	ATOM	8009	C	LEU	G	479	-3.841	27.273	49.707	1.00	18.82	G	C
	ATOM	8010	O	LEU	G	479	-4.812	27.483	48.970	1.00	17.06	G	O
	ATOM	8011	N	GLU	G	480	-3.590	26.082	50.244	1.00	20.61	G	N
	ATOM	8012	CA	GLU	G	480	-4.467	24.949	49.961	1.00	21.95	G	C

	ATOM	8013	CB	GLU	G	480	-3.905	23.658	50.566	1.00	23.03	G	C
	ATOM	8014	CG	GLU	G	480	-4.800	22.455	50.303	1.00	27.17	G	C
	ATOM	8015	CD	GLU	G	480	-4.123	21.133	50.611	1.00	31.57	G	C
5	ATOM	8016	OE1	GLU	G	480	-2.944	21.137	51.040	1.00	34.05	G	O
	ATOM	8017	OE2	GLU	G	480	-4.774	20.085	50.419	1.00	34.42	G	O
	ATOM	8018	C	GLU	G	480	-5.894	25.169	50.467	1.00	20.26	G	C
	ATOM	8019	O	GLU	G	480	-6.858	24.849	49.772	1.00	22.22	G	O
	ATOM	8020	N	ASN	G	481	-6.040	25.709	51.670	1.00	18.09	G	N
10	ATOM	8021	CA	ASN	G	481	-7.376	25.955	52.217	1.00	18.70	G	C
	ATOM	8022	CB	ASN	G	481	-7.293	26.395	53.680	1.00	20.82	G	C
	ATOM	8023	CG	ASN	G	481	-6.752	25.302	54.588	1.00	24.07	G	C
	ATOM	8024	OD1	ASN	G	481	-6.173	25.580	55.636	1.00	23.28	G	O
	ATOM	8025	ND2	ASN	G	481	-6.943	24.057	54.188	1.00	21.25	G	N
15	ATOM	8026	C	ASN	G	481	-8.120	27.025	51.432	1.00	17.80	G	C
	ATOM	8027	O	ASN	G	481	-9.349	26.980	51.322	1.00	15.74	G	O
	ATOM	8028	N	VAL	G	482	-7.377	27.997	50.905	1.00	15.79	G	N
	ATOM	8029	CA	VAL	G	482	-7.987	29.069	50.135	1.00	16.02	G	C
	ATOM	8030	CB	VAL	G	482	-7.032	30.277	49.968	1.00	16.35	G	C
20	ATOM	8031	CG1	VAL	G	482	-7.705	31.344	49.104	1.00	13.51	G	C
	ATOM	8032	CG2	VAL	G	482	-6.667	30.866	51.343	1.00	16.80	G	C
	ATOM	8033	C	VAL	G	482	-8.418	28.644	48.738	1.00	16.89	G	C
	ATOM	8034	O	VAL	G	482	-9.529	28.960	48.303	1.00	16.28	G	O
	ATOM	8035	N	PHE	G	483	-7.556	27.899	48.046	1.00	17.64	G	N
25	ATOM	8036	CA	PHE	G	483	-7.846	27.520	46.663	1.00	18.43	G	C
	ATOM	8037	CB	PHE	G	483	-6.608	27.824	45.816	1.00	15.23	G	C
	ATOM	8038	CG	PHE	G	483	-6.282	29.298	45.735	1.00	14.92	G	C
	ATOM	8039	CD1	PHE	G	483	-7.127	30.173	45.067	1.00	12.00	G	C
	ATOM	8040	CD2	PHE	G	483	-5.140	29.806	46.338	1.00	15.04	G	C
	ATOM	8041	CE1	PHE	G	483	-6.849	31.521	44.997	1.00	11.90	G	C
30	ATOM	8042	CE2	PHE	G	483	-4.849	31.165	46.273	1.00	16.56	G	C
	ATOM	8043	CZ	PHE	G	483	-5.706	32.022	45.601	1.00	13.96	G	C
	ATOM	8044	C	PHE	G	483	-8.380	26.134	46.302	1.00	19.16	G	C
	ATOM	8045	O	PHE	G	483	-9.223	26.015	45.427	1.00	20.62	G	O
	ATOM	8046	N	MET	G	484	-7.899	25.089	46.960	1.00	22.19	G	N
35	ATOM	8047	CA	MET	G	484	-8.338	23.729	46.651	1.00	23.25	G	C
	ATOM	8048	CB	MET	G	484	-7.706	22.744	47.634	1.00	26.55	G	C
	ATOM	8049	CG	MET	G	484	-7.868	21.283	47.229	1.00	30.61	G	C
	ATOM	8050	SD	MET	G	484	-6.924	20.872	45.748	1.00	34.46	G	S
	ATOM	8051	CE	MET	G	484	-5.314	20.630	46.431	1.00	30.14	G	C
40	ATOM	8052	C	MET	G	484	-9.851	23.490	46.609	1.00	23.86	G	C
	ATOM	8053	O	MET	G	484	-10.360	22.841	45.693	1.00	24.53	G	O
	ATOM	8054	N	PRO	G	485	-10.597	23.988	47.608	1.00	23.73	G	N
	ATOM	8055	CD	PRO	G	485	-10.212	24.746	48.809	1.00	21.00	G	C
	ATOM	8056	CA	PRO	G	485	-12.044	23.749	47.560	1.00	22.36	G	C
45	ATOM	8057	CB	PRO	G	485	-12.558	24.381	48.855	1.00	20.64	G	C
	ATOM	8058	CG	PRO	G	485	-11.355	24.489	49.729	1.00	19.95	G	C
	ATOM	8059	C	PRO	G	485	-12.706	24.351	46.327	1.00	23.02	G	C
	ATOM	8060	O	PRO	G	485	-13.684	23.809	45.808	1.00	22.92	G	O
50	ATOM	8061	N	VAL	G	486	-12.166	25.480	45.872	1.00	23.29	G	N
	ATOM	8062	CA	VAL	G	486	-12.695	26.171	44.705	1.00	21.08	G	C
	ATOM	8063	CB	VAL	G	486	-12.124	27.600	44.625	1.00	22.78	G	C
	ATOM	8064	CG1	VAL	G	486	-12.652	28.295	43.406	1.00	25.45	G	C
	ATOM	8065	CG2	VAL	G	486	-12.529	28.383	45.857	1.00	24.24	G	C
	ATOM	8066	C	VAL	G	486	-12.351	25.380	43.442	1.00	19.67	G	C
55	ATOM	8067	O	VAL	G	486	-13.157	25.291	42.524	1.00	21.01	G	O
	ATOM	8068	N	PHE	G	487	-11.156	24.804	43.394	1.00	19.68	G	N
	ATOM	8069	CA	PHE	G	487	-10.761	23.998	42.246	1.00	21.87	G	C
	ATOM	8070	CB	PHE	G	487	-9.289	23.595	42.346	1.00	19.60	G	C
	ATOM	8071	CG	PHE	G	487	-8.349	24.562	41.693	1.00	21.77	G	C
60	ATOM	8072	CD1	PHE	G	487	-7.781	25.601	42.427	1.00	22.29	G	C
	ATOM	8073	CD2	PHE	G	487	-8.000	24.425	40.349	1.00	23.13	G	C
	ATOM	8074	CE1	PHE	G	487	-6.873	26.494	41.835	1.00	20.38	G	C
	ATOM	8075	CE2	PHE	G	487	-7.095	25.309	39.750	1.00	20.95	G	C
	ATOM	8076	CZ	PHE	G	487	-6.531	26.343	40.498	1.00	20.77	G	C
65	ATOM	8077	C	PHE	G	487	-11.634	22.738	42.245	1.00	25.61	G	C
	ATOM	8078	O	PHE	G	487	-12.045	22.253	41.193	1.00	26.77	G	O
	ATOM	8079	N	GLU	G	488	-11.930	22.217	43.433	1.00	25.98	G	N
	ATOM	8080	CA	GLU	G	488	-12.745	21.015	43.553	1.00	24.73	G	C

	ATOM	8081	CB	GLU	G	488	-12.811	20.551	45.004	1.00	28.33	G	C
	ATOM	8082	CG	GLU	G	488	-11.974	19.329	45.282	1.00	35.27	G	C
	ATOM	8083	CD	GLU	G	488	-11.502	19.288	46.719	1.00	42.14	G	C
	ATOM	8084	OE1	GLU	G	488	-12.242	19.808	47.595	1.00	42.44	G	O
5	ATOM	8085	OE2	GLU	G	488	-10.397	18.740	46.971	1.00	44.17	G	O
	ATOM	8086	C	GLU	G	488	-14.152	21.236	43.061	1.00	24.15	G	C
	ATOM	8087	O	GLU	G	488	-14.744	20.354	42.442	1.00	24.30	G	O
	ATOM	8088	N	ALA	G	489	-14.709	22.406	43.347	1.00	21.95	G	N
	ATOM	8089	CA	ALA	G	489	-16.066	22.688	42.905	1.00	20.75	G	C
10	ATOM	8090	CB	ALA	G	489	-16.623	23.912	43.646	1.00	15.76	G	C
	ATOM	8091	C	ALA	G	489	-16.101	22.912	41.382	1.00	22.88	G	C
	ATOM	8092	O	ALA	G	489	-17.122	22.663	40.735	1.00	23.26	G	O
	ATOM	8093	N	THR	G	490	-14.985	23.372	40.818	1.00	22.58	G	N
	ATOM	8094	CA	THR	G	490	-14.888	23.640	39.380	1.00	25.36	G	C
15	ATOM	8095	CB	THR	G	490	-13.603	24.464	39.062	1.00	25.24	G	C
	ATOM	8096	OG1	THR	G	490	-13.736	25.780	39.617	1.00	25.31	G	O
	ATOM	8097	CG2	THR	G	490	-13.371	24.581	37.558	1.00	22.51	G	C
	ATOM	8098	C	THR	G	490	-14.868	22.317	38.606	1.00	26.49	G	C
	ATOM	8099	O	THR	G	490	-15.607	22.134	37.641	1.00	25.39	G	O
20	ATOM	8100	N	ILE	G	491	-14.034	21.394	39.070	1.00	27.46	G	N
	ATOM	8101	CA	ILE	G	491	-13.873	20.081	38.474	1.00	26.38	G	C
	ATOM	8102	CB	ILE	G	491	-12.602	19.428	39.076	1.00	28.07	G	C
	ATOM	8103	CG2	ILE	G	491	-12.916	18.150	39.826	1.00	31.48	G	C
	ATOM	8104	CG1	ILE	G	491	-11.594	19.212	37.966	1.00	28.85	G	C
25	ATOM	8105	CD1	ILE	G	491	-10.543	20.270	37.954	1.00	32.09	G	C
	ATOM	8106	C	ILE	G	491	-15.122	19.205	38.666	1.00	26.65	G	C
	ATOM	8107	O	ILE	G	491	-15.529	18.486	37.748	1.00	24.99	G	O
	ATOM	8108	N	ASN	G	492	-15.745	19.297	39.844	1.00	26.49	G	N
	ATOM	8109	CA	ASN	G	492	-16.945	18.522	40.165	1.00	24.14	G	C
30	ATOM	8110	CB	ASN	G	492	-16.621	17.455	41.197	1.00	25.85	G	C
	ATOM	8111	CG	ASN	G	492	-15.543	16.514	40.728	1.00	27.17	G	C
	ATOM	8112	OD1	ASN	G	492	-15.611	15.983	39.620	1.00	26.01	G	O
	ATOM	8113	ND2	ASN	G	492	-14.534	16.304	41.566	1.00	27.87	G	N
	ATOM	8114	C	ASN	G	492	-18.058	19.389	40.707	1.00	23.94	G	C
35	ATOM	8115	O	ASN	G	492	-18.398	19.303	41.882	1.00	25.04	G	O
	ATOM	8116	N	PRO	G	493	-18.677	20.202	39.844	1.00	25.40	G	N
	ATOM	8117	CD	PRO	G	493	-18.408	20.309	38.397	1.00	25.51	G	C
	ATOM	8118	CA	PRO	G	493	-19.760	21.092	40.268	1.00	25.62	G	C
	ATOM	8119	CB	PRO	G	493	-20.173	21.810	38.974	1.00	24.77	G	C
40	ATOM	8120	CG	PRO	G	493	-19.016	21.628	38.036	1.00	23.21	G	C
	ATOM	8121	C	PRO	G	493	-20.938	20.387	40.910	1.00	26.06	G	C
	ATOM	8122	O	PRO	G	493	-21.569	20.909	41.823	1.00	26.47	G	O
	ATOM	8123	N	GLN	G	494	-21.249	19.204	40.410	1.00	27.07	G	N
	ATOM	8124	CA	GLN	G	494	-22.382	18.449	40.918	1.00	29.16	G	C
45	ATOM	8125	CB	GLN	G	494	-22.654	17.272	39.992	1.00	33.51	G	C
	ATOM	8126	CG	GLN	G	494	-22.816	17.703	38.553	1.00	37.99	G	C
	ATOM	8127	CD	GLN	G	494	-24.233	18.132	38.237	1.00	39.53	G	C
	ATOM	8128	OE1	GLN	G	494	-24.799	17.719	37.232	1.00	47.93	G	O
	ATOM	8129	NE2	GLN	G	494	-24.814	18.958	39.094	1.00	40.52	G	N
50	ATOM	8130	C	GLN	G	494	-22.186	17.957	42.344	1.00	28.63	G	C
	ATOM	8131	O	GLN	G	494	-23.156	17.805	43.093	1.00	25.02	G	O
	ATOM	8132	N	ALA	G	495	-20.928	17.703	42.702	1.00	26.38	G	N
	ATOM	8133	CA	ALA	G	495	-20.577	17.245	44.031	1.00	23.16	G	C
	ATOM	8134	CB	ALA	G	495	-19.180	16.646	44.012	1.00	22.34	G	C
55	ATOM	8135	C	ALA	G	495	-20.643	18.415	45.015	1.00	25.05	G	C
	ATOM	8136	O	ALA	G	495	-20.869	18.210	46.206	1.00	25.36	G	O
	ATOM	8137	N	HIS	G	496	-20.466	19.640	44.513	1.00	24.57	G	N
	ATOM	8138	CA	HIS	G	496	-20.495	20.852	45.342	1.00	21.89	G	C
	ATOM	8139	CB	HIS	G	496	-19.091	21.414	45.466	1.00	22.82	G	C
60	ATOM	8140	CG	HIS	G	496	-18.051	20.369	45.706	1.00	25.05	G	C
	ATOM	8141	CD2	HIS	G	496	-17.181	19.765	44.861	1.00	27.37	G	C
	ATOM	8142	ND1	HIS	G	496	-17.806	19.839	46.955	1.00	26.23	G	N
	ATOM	8143	CE1	HIS	G	496	-16.829	18.953	46.869	1.00	27.18	G	C
	ATOM	8144	NE2	HIS	G	496	-16.432	18.888	45.610	1.00	29.20	G	N
65	ATOM	8145	C	HIS	G	496	-21.410	21.906	44.735	1.00	22.77	G	C
	ATOM	8146	O	HIS	G	496	-20.970	22.970	44.312	1.00	22.86	G	O
	ATOM	8147	N	PRO	G	497	-22.713	21.632	44.723	1.00	23.45	G	N
	ATOM	8148	CD	PRO	G	497	-23.316	20.415	45.297	1.00	21.76	G	C

	ATOM	8149	CA	PRO	G	497	-23.715	22.542	44.158	1.00	23.46	G	C
	ATOM	8150	CB	PRO	G	497	-25.016	21.749	44.248	1.00	21.23	G	C
	ATOM	8151	CG	PRO	G	497	-24.772	20.748	45.335	1.00	22.69	G	C
	ATOM	8152	C	PRO	G	497	-23.845	23.916	44.799	1.00	26.15	G	C
5	ATOM	8153	O	PRO	G	497	-23.987	24.919	44.095	1.00	26.48	G	O
	ATOM	8154	N	GLU	G	498	-23.826	23.972	46.129	1.00	25.17	G	N
	ATOM	8155	CA	GLU	G	498	-23.953	25.250	46.815	1.00	22.22	G	C
	ATOM	8156	CB	GLU	G	498	-24.166	25.042	48.312	1.00	24.14	G	C
	ATOM	8157	CG	GLU	G	498	-25.624	25.013	48.692	1.00	22.63	G	C
10	ATOM	8158	CD	GLU	G	498	-25.878	25.308	50.162	1.00	27.63	G	C
	ATOM	8159	OE1	GLU	G	498	-25.028	24.972	51.016	1.00	26.18	G	O
	ATOM	8160	OE2	GLU	G	498	-26.946	25.878	50.460	1.00	28.27	G	O
	ATOM	8161	C	GLU	G	498	-22.717	26.099	46.581	1.00	20.01	G	C
	ATOM	8162	O	GLU	G	498	-22.824	27.286	46.295	1.00	20.99	G	O
15	ATOM	8163	N	LEU	G	499	-21.543	25.494	46.710	1.00	19.46	G	N
	ATOM	8164	CA	LEU	G	499	-20.305	26.225	46.466	1.00	20.31	G	C
	ATOM	8165	CB	LEU	G	499	-19.084	25.359	46.814	1.00	17.15	G	C
	ATOM	8166	CG	LEU	G	499	-17.733	26.046	46.618	1.00	16.66	G	C
	ATOM	8167	CD1	LEU	G	499	-17.786	27.432	47.233	1.00	18.18	G	C
20	ATOM	8168	CD2	LEU	G	499	-16.628	25.221	47.224	1.00	16.69	G	C
	ATOM	8169	C	LEU	G	499	-20.241	26.658	44.991	1.00	20.41	G	C
	ATOM	8170	O	LEU	G	499	-19.803	27.761	44.677	1.00	22.75	G	O
	ATOM	8171	N	SER	G	500	-20.695	25.790	44.095	1.00	19.72	G	N
	ATOM	8172	CA	SER	G	500	-20.683	26.088	42.664	1.00	19.14	G	C
25	ATOM	8173	CB	SER	G	500	-21.170	24.873	41.857	1.00	19.22	G	C
	ATOM	8174	OG	SER	G	500	-20.214	23.825	41.894	1.00	16.28	G	O
	ATOM	8175	C	SER	G	500	-21.552	27.295	42.336	1.00	18.45	G	C
	ATOM	8176	O	SER	G	500	-21.190	28.115	41.492	1.00	17.85	G	O
	ATOM	8177	N	VAL	G	501	-22.700	27.402	42.996	1.00	15.87	G	N
30	ATOM	8178	CA	VAL	G	501	-23.601	28.530	42.761	1.00	16.89	G	C
	ATOM	8179	CB	VAL	G	501	-24.996	28.274	43.403	1.00	17.04	G	C
	ATOM	8180	CG1	VAL	G	501	-25.737	29.583	43.591	1.00	15.30	G	C
	ATOM	8181	CG2	VAL	G	501	-25.805	27.337	42.533	1.00	10.62	G	C
	ATOM	8182	C	VAL	G	501	-23.005	29.828	43.327	1.00	18.39	G	C
35	ATOM	8183	O	VAL	G	501	-23.054	30.885	42.691	1.00	18.34	G	O
	ATOM	8184	N	PHE	G	502	-22.443	29.739	44.528	1.00	17.84	G	N
	ATOM	8185	CA	PHE	G	502	-21.818	30.881	45.178	1.00	16.22	G	C
	ATOM	8186	CB	PHE	G	502	-21.255	30.422	46.536	1.00	18.48	G	C
	ATOM	8187	CG	PHE	G	502	-20.477	31.480	47.296	1.00	17.05	G	C
40	ATOM	8188	CD1	PHE	G	502	-21.053	32.709	47.606	1.00	14.59	G	C
	ATOM	8189	CD2	PHE	G	502	-19.187	31.217	47.748	1.00	17.07	G	C
	ATOM	8190	CE1	PHE	G	502	-20.358	33.658	48.358	1.00	16.16	G	C
	ATOM	8191	CE2	PHE	G	502	-18.481	32.161	48.502	1.00	19.16	G	C
	ATOM	8192	CZ	PHE	G	502	-19.072	33.388	48.808	1.00	16.23	G	C
45	ATOM	8193	C	PHE	G	502	-20.695	31.405	44.279	1.00	16.06	G	C
	ATOM	8194	O	PHE	G	502	-20.580	32.608	44.049	1.00	16.00	G	O
	ATOM	8195	N	LEU	G	503	-19.876	30.494	43.760	1.00	16.39	G	N
	ATOM	8196	CA	LEU	G	503	-18.753	30.881	42.910	1.00	15.97	G	C
	ATOM	8197	CB	LEU	G	503	-17.971	29.637	42.480	1.00	13.04	G	C
50	ATOM	8198	CG	LEU	G	503	-17.058	29.089	43.589	1.00	14.56	G	C
	ATOM	8199	CD1	LEU	G	503	-16.378	27.818	43.134	1.00	12.75	G	C
	ATOM	8200	CD2	LEU	G	503	-16.011	30.135	43.971	1.00	14.01	G	C
	ATOM	8201	C	LEU	G	503	-19.172	31.713	41.694	1.00	16.81	G	C
	ATOM	8202	O	LEU	G	503	-18.376	32.498	41.168	1.00	17.20	G	O
55	ATOM	8203	N	LYS	G	504	-20.417	31.543	41.258	1.00	14.41	G	N
	ATOM	8204	CA	LYS	G	504	-20.947	32.299	40.126	1.00	17.06	G	C
	ATOM	8205	CB	LYS	G	504	-22.253	31.680	39.622	1.00	16.35	G	C
	ATOM	8206	CG	LYS	G	504	-22.064	30.354	38.924	1.00	18.07	G	C
	ATOM	8207	CD	LYS	G	504	-23.387	29.710	38.634	1.00	22.21	G	C
60	ATOM	8208	CE	LYS	G	504	-24.111	30.395	37.481	1.00	22.11	G	C
	ATOM	8209	NZ	LYS	G	504	-25.547	29.990	37.433	1.00	26.90	G	N
	ATOM	8210	C	LYS	G	504	-21.221	33.741	40.539	1.00	17.95	G	C
	ATOM	8211	O	LYS	G	504	-21.365	34.610	39.690	1.00	17.84	G	O
	ATOM	8212	N	HIS	G	505	-21.305	33.985	41.849	1.00	18.43	G	N
65	ATOM	8213	CA	HIS	G	505	-21.566	35.324	42.367	1.00	14.35	G	C
	ATOM	8214	CB	HIS	G	505	-22.521	35.262	43.545	1.00	14.15	G	C
	ATOM	8215	CG	HIS	G	505	-23.890	34.796	43.182	1.00	15.11	G	C
	ATOM	8216	CD2	HIS	G	505	-24.359	33.563	42.875	1.00	18.24	G	C

	ATOM	8217	ND1	HIS	G	505	-24.980	35.638	43.152	1.00	16.98	G	N
	ATOM	8218	CE1	HIS	G	505	-26.062	34.944	42.845	1.00	17.26	G	C
	ATOM	8219	NE2	HIS	G	505	-25.714	33.681	42.673	1.00	16.20	G	N
	ATOM	8220	C	HIS	G	505	-20.304	36.046	42.803	1.00	14.08	G	C
5	ATOM	8221	O	HIS	G	505	-20.378	37.194	43.215	1.00	14.81	G	O
	ATOM	8222	N	ILE	G	506	-19.156	35.375	42.722	1.00	13.29	G	N
	ATOM	8223	CA	ILE	G	506	-17.882	35.974	43.094	1.00	12.32	G	C
	ATOM	8224	CB	ILE	G	506	-16.941	34.946	43.738	1.00	9.31	G	C
	ATOM	8225	CG2	ILE	G	506	-15.572	35.572	43.980	1.00	6.50	G	C
10	ATOM	8226	CG1	ILE	G	506	-17.540	34.438	45.047	1.00	9.19	G	C
	ATOM	8227	CD1	ILE	G	506	-18.271	35.522	45.879	1.00	8.87	G	C
	ATOM	8228	C	ILE	G	506	-17.200	36.527	41.836	1.00	16.69	G	C
	ATOM	8229	O	ILE	G	506	-17.031	35.795	40.841	1.00	17.70	G	O
	ATOM	8230	N	THR	G	507	-16.810	37.804	41.882	1.00	13.51	G	N
15	ATOM	8231	CA	THR	G	507	-16.167	38.460	40.749	1.00	14.24	G	C
	ATOM	8232	CB	THR	G	507	-16.750	39.882	40.515	1.00	11.41	G	C
	ATOM	8233	OG1	THR	G	507	-16.302	40.767	41.546	1.00	13.73	G	O
	ATOM	8234	CG2	THR	G	507	-18.269	39.848	40.516	1.00	8.67	G	C
	ATOM	8235	C	THR	G	507	-14.638	38.572	40.844	1.00	14.89	G	C
20	ATOM	8236	O	THR	G	507	-13.971	38.746	39.826	1.00	14.97	G	O
	ATOM	8237	N	GLY	G	508	-14.081	38.474	42.053	1.00	12.88	G	N
	ATOM	8238	CA	GLY	G	508	-12.642	38.594	42.194	1.00	11.45	G	C
	ATOM	8239	C	GLY	G	508	-12.155	38.375	43.608	1.00	13.16	G	C
	ATOM	8240	O	GLY	G	508	-12.958	38.206	44.535	1.00	13.04	G	O
25	ATOM	8241	N	PHE	G	509	-10.833	38.366	43.765	1.00	14.94	G	N
	ATOM	8242	CA	PHE	G	509	-10.179	38.176	45.063	1.00	14.07	G	C
	ATOM	8243	CB	PHE	G	509	-9.176	37.031	45.005	1.00	13.75	G	C
	ATOM	8244	CG	PHE	G	509	-9.803	35.689	44.869	1.00	14.53	G	C
	ATOM	8245	CD1	PHE	G	509	-9.984	34.889	45.987	1.00	15.15	G	C
30	ATOM	8246	CD2	PHE	G	509	-10.216	35.222	43.626	1.00	14.50	G	C
	ATOM	8247	CE1	PHE	G	509	-10.572	33.633	45.878	1.00	16.51	G	C
	ATOM	8248	CE2	PHE	G	509	-10.803	33.974	43.501	1.00	19.22	G	C
	ATOM	8249	CZ	PHE	G	509	-10.984	33.172	44.637	1.00	17.42	G	C
	ATOM	8250	C	PHE	G	509	-9.415	39.424	45.461	1.00	16.55	G	C
35	ATOM	8251	O	PHE	G	509	-8.824	40.105	44.611	1.00	15.23	G	O
	ATOM	8252	N	ASP	G	510	-9.412	39.700	46.764	1.00	18.05	G	N
	ATOM	8253	CA	ASP	G	510	-8.721	40.850	47.339	1.00	15.30	G	C
	ATOM	8254	CB	ASP	G	510	-9.748	41.749	48.042	1.00	13.21	G	C
	ATOM	8255	CG	ASP	G	510	-9.247	43.173	48.277	1.00	13.54	G	C
40	ATOM	8256	OD1	ASP	G	510	-8.028	43.392	48.386	1.00	16.16	G	O
	ATOM	8257	OD2	ASP	G	510	-10.086	44.092	48.365	1.00	14.58	G	O
	ATOM	8258	C	ASP	G	510	-7.689	40.293	48.347	1.00	17.49	G	C
	ATOM	8259	O	ASP	G	510	-7.775	39.133	48.771	1.00	14.48	G	O
	ATOM	8260	N	SER	G	511	-6.694	41.104	48.686	1.00	16.54	G	N
45	ATOM	8261	CA	SER	G	511	-5.680	40.723	49.656	1.00	15.45	G	C
	ATOM	8262	CB	SER	G	511	-4.326	40.548	48.990	1.00	16.38	G	C
	ATOM	8263	OG	SER	G	511	-3.350	40.162	49.949	1.00	13.27	G	O
	ATOM	8264	C	SER	G	511	-5.634	41.892	50.637	1.00	17.35	G	C
	ATOM	8265	O	SER	G	511	-5.477	43.044	50.227	1.00	14.83	G	O
50	ATOM	8266	N	VAL	G	512	-5.776	41.592	51.927	1.00	18.22	G	N
	ATOM	8267	CA	VAL	G	512	-5.818	42.631	52.955	1.00	18.30	G	C
	ATOM	8268	CB	VAL	G	512	-7.276	42.858	53.432	1.00	16.61	G	C
	ATOM	8269	CG1	VAL	G	512	-8.122	43.453	52.312	1.00	19.04	G	C
	ATOM	8270	CG2	VAL	G	512	-7.869	41.552	53.877	1.00	17.12	G	C
55	ATOM	8271	C	VAL	G	512	-4.937	42.380	54.191	1.00	19.30	G	C
	ATOM	8272	O	VAL	G	512	-4.658	41.242	54.555	1.00	15.39	G	O
	ATOM	8273	N	ASP	G	513	-4.513	43.482	54.813	1.00	21.73	G	N
	ATOM	8274	CA	ASP	G	513	-3.672	43.508	56.011	1.00	23.22	G	C
	ATOM	8275	CB	ASP	G	513	-2.512	42.502	55.919	1.00	27.01	G	C
60	ATOM	8276	CG	ASP	G	513	-1.908	42.160	57.300	1.00	30.59	G	C
	ATOM	8277	OD1	ASP	G	513	-2.577	42.406	58.336	1.00	30.16	G	O
	ATOM	8278	OD2	ASP	G	513	-0.768	41.640	57.347	1.00	29.75	G	O
	ATOM	8279	C	ASP	G	513	-3.081	44.905	56.170	1.00	23.92	G	C
	ATOM	8280	O	ASP	G	513	-3.278	45.779	55.326	1.00	24.63	G	O
65	ATOM	8281	N	ASP	G	514	-2.360	45.104	57.267	1.00	23.88	G	N
	ATOM	8282	CA	ASP	G	514	-1.703	46.368	57.551	1.00	24.90	G	C
	ATOM	8283	CB	ASP	G	514	-1.176	46.357	58.984	1.00	27.49	G	C
	ATOM	8284	CG	ASP	G	514	-0.511	47.664	59.383	1.00	31.00	G	C

	ATOM	8285	OD1	ASP	G	514	-0.240	48.517	58.507	1.00	30.84	G	O
	ATOM	8286	OD2	ASP	G	514	-0.256	47.832	60.596	1.00	36.33	G	O
	ATOM	8287	C	ASP	G	514	-0.549	46.416	56.567	1.00	24.72	G	C
5	ATOM	8288	O	ASP	G	514	0.446	45.709	56.740	1.00	25.15	G	O
	ATOM	8289	N	GLU	G	515	-0.680	47.240	55.534	1.00	24.08	G	N
	ATOM	8290	CA	GLU	G	515	0.361	47.339	54.506	1.00	25.21	G	C
	ATOM	8291	CB	GLU	G	515	-0.189	48.074	53.283	1.00	23.90	G	C
	ATOM	8292	CG	GLU	G	515	0.208	47.426	51.987	1.00	19.87	G	C
10	ATOM	8293	CD	GLU	G	515	-0.204	48.241	50.796	1.00	20.34	G	C
	ATOM	8294	OE1	GLU	G	515	-1.304	48.846	50.839	1.00	16.58	G	O
	ATOM	8295	OE2	GLU	G	515	0.577	48.277	49.822	1.00	19.99	G	O
	ATOM	8296	C	GLU	G	515	1.661	48.000	54.947	1.00	24.78	G	C
	ATOM	8297	O	GLU	G	515	2.697	47.854	54.286	1.00	23.65	G	O
15	ATOM	8298	N	SER	G	516	1.600	48.731	56.058	1.00	26.10	G	N
	ATOM	8299	CA	SER	G	516	2.764	49.430	56.578	1.00	28.07	G	C
	ATOM	8300	CB	SER	G	516	2.345	50.541	57.535	1.00	27.44	G	C
	ATOM	8301	OG	SER	G	516	1.945	49.988	58.768	1.00	25.11	G	O
	ATOM	8302	C	SER	G	516	3.666	48.469	57.301	1.00	30.67	G	C
20	ATOM	8303	O	SER	G	516	4.772	48.829	57.683	1.00	35.16	G	O
	ATOM	8304	N	LYS	G	517	3.196	47.244	57.490	1.00	33.64	G	N
	ATOM	8305	CA	LYS	G	517	3.988	46.237	58.169	1.00	37.29	G	C
	ATOM	8306	CB	LYS	G	517	3.244	44.921	58.218	1.00	35.70	G	C
	ATOM	8307	CG	LYS	G	517	3.102	44.372	59.604	1.00	37.04	G	C
25	ATOM	8308	CD	LYS	G	517	1.640	44.219	59.973	1.00	38.01	G	C
	ATOM	8309	CE	LYS	G	517	0.960	43.175	59.102	1.00	38.13	G	C
	ATOM	8310	NZ	LYS	G	517	0.985	41.808	59.696	1.00	40.22	G	N
	ATOM	8311	C	LYS	G	517	5.354	46.000	57.542	1.00	44.42	G	C
	ATOM	8312	O	LYS	G	517	5.607	46.316	56.369	1.00	47.00	G	O
30	ATOM	8313	N	HIS	G	518	6.217	45.418	58.361	1.00	49.90	G	N
	ATOM	8314	CA	HIS	G	518	7.606	45.089	58.045	1.00	54.49	G	C
	ATOM	8315	CB	HIS	G	518	8.402	45.162	59.334	1.00	59.41	G	C
	ATOM	8316	CG	HIS	G	518	7.804	44.316	60.415	1.00	65.65	G	C
	ATOM	8317	CD2	HIS	G	518	6.738	44.533	61.228	1.00	67.09	G	C
35	ATOM	8318	ND1	HIS	G	518	8.198	43.012	60.642	1.00	67.96	G	N
	ATOM	8319	CE1	HIS	G	518	7.402	42.464	61.543	1.00	69.08	G	C
	ATOM	8320	NE2	HIS	G	518	6.505	43.365	61.915	1.00	69.65	G	N
	ATOM	8321	C	HIS	G	518	7.683	43.645	57.553	1.00	54.70	G	C
	ATOM	8322	O	HIS	G	518	7.146	42.731	58.197	1.00	54.54	G	O
40	ATOM	8323	N	SER	G	519	8.354	43.421	56.433	1.00	53.59	G	N
	ATOM	8324	CA	SER	G	519	8.485	42.056	55.948	1.00	53.59	G	C
	ATOM	8325	CB	SER	G	519	8.196	41.978	54.445	1.00	52.96	G	C
	ATOM	8326	OG	SER	G	519	8.702	40.769	53.907	1.00	52.43	G	O
	ATOM	8327	C	SER	G	519	9.922	41.650	56.232	1.00	53.26	G	C
45	ATOM	8328	O	SER	G	519	10.184	40.677	56.953	1.00	50.56	G	O
	ATOM	8329	N	GLY	G	520	10.840	42.436	55.671	1.00	53.16	G	N
	ATOM	8330	CA	GLY	G	520	12.260	42.194	55.834	1.00	52.29	G	C
	ATOM	8331	C	GLY	G	520	12.827	41.209	54.825	1.00	52.44	G	C
	ATOM	8332	O	GLY	G	520	13.995	41.314	54.448	1.00	54.53	G	O
50	ATOM	8333	N	HIS	G	521	11.996	40.268	54.378	1.00	50.95	G	N
	ATOM	8334	CA	HIS	G	521	12.402	39.226	53.432	1.00	50.20	G	C
	ATOM	8335	CB	HIS	G	521	12.221	37.868	54.105	1.00	53.10	G	C
	ATOM	8336	CG	HIS	G	521	10.965	37.772	54.923	1.00	56.56	G	C
	ATOM	8337	CD2	HIS	G	521	9.678	38.079	54.624	1.00	57.32	G	C
55	ATOM	8338	ND1	HIS	G	521	10.957	37.342	56.234	1.00	58.92	G	N
	ATOM	8339	CE1	HIS	G	521	9.723	37.390	56.706	1.00	58.76	G	C
	ATOM	8340	NE2	HIS	G	521	8.928	37.834	55.749	1.00	59.02	G	N
	ATOM	8341	C	HIS	G	521	11.579	39.250	52.135	1.00	48.14	G	C
	ATOM	8342	O	HIS	G	521	10.512	38.633	52.063	1.00	49.91	G	O
60	ATOM	8343	N	MET	G	522	12.054	39.931	51.100	1.00	44.93	G	N
	ATOM	8344	CA	MET	G	522	11.257	39.952	49.882	1.00	45.74	G	C
	ATOM	8345	CB	MET	G	522	11.532	41.186	49.036	1.00	46.82	G	C
	ATOM	8346	CG	MET	G	522	10.355	41.442	48.111	1.00	49.52	G	C
	ATOM	8347	SD	MET	G	522	10.712	42.407	46.671	1.00	53.61	G	S
65	ATOM	8348	CE	MET	G	522	11.249	43.972	47.437	1.00	54.37	G	C
	ATOM	8349	C	MET	G	522	11.372	38.734	48.983	1.00	42.34	G	C
	ATOM	8350	O	MET	G	522	12.397	38.049	48.957	1.00	42.03	G	O
	ATOM	8351	N	PHE	G	523	10.291	38.485	48.247	1.00	38.13	G	N
	ATOM	8352	CA	PHE	G	523	10.199	37.372	47.309	1.00	34.33	G	C

	ATOM	8353	CB	PHE	G	523	8.942	37.541	46.450	1.00	30.96	G	C
	ATOM	8354	CG	PHE	G	523	8.615	36.344	45.610	1.00	28.77	G	C
	ATOM	8355	CD1	PHE	G	523	8.605	35.066	46.161	1.00	26.77	G	C
	ATOM	8356	CD2	PHE	G	523	8.288	36.496	44.268	1.00	26.27	G	C
5	ATOM	8357	CE1	PHE	G	523	8.270	33.963	45.384	1.00	27.81	G	C
	ATOM	8358	CE2	PHE	G	523	7.952	35.400	43.486	1.00	25.34	G	C
	ATOM	8359	CZ	PHE	G	523	7.942	34.130	44.045	1.00	24.97	G	C
	ATOM	8360	C	PHE	G	523	11.431	37.260	46.402	1.00	33.05	G	C
	ATOM	8361	O	PHE	G	523	11.871	38.238	45.795	1.00	31.24	G	O
10	ATOM	8362	N	SER	G	524	11.980	36.057	46.311	1.00	32.82	G	N
	ATOM	8363	CA	SER	G	524	13.148	35.827	45.486	1.00	34.54	G	C
	ATOM	8364	CB	SER	G	524	14.410	36.292	46.209	1.00	35.07	G	C
	ATOM	8365	OG	SER	G	524	15.117	35.179	46.727	1.00	37.25	G	O
	ATOM	8366	C	SER	G	524	13.290	34.356	45.124	1.00	37.11	G	C
15	ATOM	8367	O	SER	G	524	12.427	33.521	45.437	1.00	36.41	G	O
	ATOM	8368	N	SER	G	525	14.393	34.052	44.455	1.00	38.43	G	N
	ATOM	8369	CA	SER	G	525	14.675	32.693	44.031	1.00	41.25	G	C
	ATOM	8370	CB	SER	G	525	15.828	32.703	43.034	1.00	41.52	G	C
	ATOM	8371	OG	SER	G	525	15.448	32.011	41.865	1.00	45.71	G	O
20	ATOM	8372	C	SER	G	525	15.037	31.823	45.223	1.00	39.81	G	C
	ATOM	8373	O	SER	G	525	14.830	30.610	45.206	1.00	38.76	G	O
	ATOM	8374	N	LYS	G	526	15.581	32.463	46.252	1.00	39.74	G	N
	ATOM	8375	CA	LYS	G	526	15.993	31.780	47.473	1.00	41.03	G	C
	ATOM	8376	CB	LYS	G	526	17.001	32.645	48.243	1.00	43.98	G	C
25	ATOM	8377	CG	LYS	G	526	17.920	33.483	47.369	1.00	46.92	G	C
	ATOM	8378	CD	LYS	G	526	19.139	32.682	46.930	1.00	51.16	G	C
	ATOM	8379	CE	LYS	G	526	20.383	33.564	46.844	1.00	54.17	G	C
	ATOM	8380	NZ	LYS	G	526	21.552	32.965	47.560	1.00	55.82	G	N
	ATOM	8381	C	LYS	G	526	14.796	31.474	48.375	1.00	39.28	G	C
30	ATOM	8382	O	LYS	G	526	14.817	30.520	49.157	1.00	38.43	G	O
	ATOM	8383	N	SER	G	527	13.753	32.289	48.258	1.00	37.01	G	N
	ATOM	8384	CA	SER	G	527	12.557	32.119	49.068	1.00	34.33	G	C
	ATOM	8385	CB	SER	G	527	11.455	33.067	48.590	1.00	31.47	G	C
	ATOM	8386	OG	SER	G	527	11.697	34.385	49.040	1.00	34.73	G	O
35	ATOM	8387	C	SER	G	527	12.024	30.690	49.072	1.00	33.60	G	C
	ATOM	8388	O	SER	G	527	11.828	30.084	48.020	1.00	35.95	G	O
	ATOM	8389	N	PRO	G	528	11.817	30.119	50.270	1.00	32.65	G	N
	ATOM	8390	CD	PRO	G	528	12.117	30.673	51.605	1.00	29.44	G	C
	ATOM	8391	CA	PRO	G	528	11.291	28.752	50.341	1.00	30.33	G	C
40	ATOM	8392	CB	PRO	G	528	11.248	28.451	51.842	1.00	28.91	G	C
	ATOM	8393	CG	PRO	G	528	11.355	29.779	52.519	1.00	29.85	G	C
	ATOM	8394	C	PRO	G	528	9.905	28.660	49.713	1.00	28.93	G	C
	ATOM	8395	O	PRO	G	528	9.166	29.645	49.688	1.00	30.12	G	O
	ATOM	8396	N	LYS	G	529	9.562	27.486	49.192	1.00	28.01	G	N
45	ATOM	8397	CA	LYS	G	529	8.245	27.277	48.603	1.00	29.02	G	C
	ATOM	8398	CB	LYS	G	529	8.177	25.932	47.880	1.00	30.09	G	C
	ATOM	8399	CG	LYS	G	529	9.345	25.671	46.947	1.00	29.43	G	C
	ATOM	8400	CD	LYS	G	529	9.078	26.231	45.559	1.00	31.63	G	C
	ATOM	8401	CE	LYS	G	529	10.030	27.380	45.231	1.00	31.90	G	C
50	ATOM	8402	NZ	LYS	G	529	11.147	26.985	44.327	1.00	30.74	G	N
	ATOM	8403	C	LYS	G	529	7.284	27.285	49.783	1.00	29.29	G	C
	ATOM	8404	O	LYS	G	529	7.714	27.149	50.935	1.00	30.58	G	O
	ATOM	8405	N	PRO	G	530	5.975	27.473	49.523	1.00	30.10	G	N
	ATOM	8406	CD	PRO	G	530	5.373	27.718	48.200	1.00	28.13	G	C
55	ATOM	8407	CA	PRO	G	530	4.955	27.508	50.585	1.00	27.87	G	C
	ATOM	8408	CB	PRO	G	530	3.637	27.589	49.811	1.00	22.64	G	C
	ATOM	8409	CG	PRO	G	530	4.007	28.281	48.562	1.00	25.14	G	C
	ATOM	8410	C	PRO	G	530	4.973	26.351	51.588	1.00	28.59	G	C
	ATOM	8411	O	PRO	G	530	4.921	26.563	52.802	1.00	28.07	G	O
60	ATOM	8412	N	GLN	G	531	5.036	25.126	51.083	1.00	29.37	G	N
	ATOM	8413	CA	GLN	G	531	5.048	23.970	51.963	1.00	31.18	G	C
	ATOM	8414	CB	GLN	G	531	4.907	22.675	51.150	1.00	31.94	G	C
	ATOM	8415	CG	GLN	G	531	6.125	22.305	50.309	1.00	36.58	G	C
	ATOM	8416	CD	GLN	G	531	6.135	22.962	48.933	1.00	38.65	G	C
65	ATOM	8417	OE1	GLN	G	531	5.319	23.853	48.635	1.00	36.56	G	O
	ATOM	8418	NE2	GLN	G	531	7.068	22.528	48.085	1.00	37.82	G	N
	ATOM	8419	C	GLN	G	531	6.320	23.943	52.797	1.00	29.94	G	C
	ATOM	8420	O	GLN	G	531	6.363	23.281	53.822	1.00	31.40	G	O

	ATOM	8421	N	GLU	G	532	7.343	24.670	52.355	1.00	30.86	G	N
	ATOM	8422	CA	GLU	G	532	8.612	24.744	53.071	1.00	30.39	G	C
	ATOM	8423	CB	GLU	G	532	9.776	24.904	52.091	1.00	34.29	G	C
5	ATOM	8424	CG	GLU	G	532	10.063	23.697	51.220	1.00	40.71	G	C
	ATOM	8425	CD	GLU	G	532	10.867	24.054	49.960	1.00	47.94	G	C
	ATOM	8426	OE1	GLU	G	532	11.557	25.111	49.933	1.00	47.85	G	O
	ATOM	8427	OE2	GLU	G	532	10.808	23.262	48.990	1.00	50.80	G	O
	ATOM	8428	C	GLU	G	532	8.628	25.925	54.039	1.00	30.38	G	C
10	ATOM	8429	O	GLU	G	532	9.524	26.030	54.865	1.00	33.69	G	O
	ATOM	8430	N	TRP	G	533	7.654	26.825	53.924	1.00	30.16	G	N
	ATOM	8431	CA	TRP	G	533	7.579	27.987	54.810	1.00	27.05	G	C
	ATOM	8432	CB	TRP	G	533	6.807	29.131	54.141	1.00	23.78	G	C
	ATOM	8433	CG	TRP	G	533	6.953	30.446	54.857	1.00	24.29	G	C
15	ATOM	8434	CD2	TRP	G	533	7.741	31.580	54.438	1.00	24.15	G	C
	ATOM	8435	CE2	TRP	G	533	7.603	32.574	55.437	1.00	21.45	G	C
	ATOM	8436	CE3	TRP	G	533	8.550	31.848	53.318	1.00	21.62	G	C
	ATOM	8437	CD1	TRP	G	533	6.388	30.796	56.051	1.00	21.17	G	C
	ATOM	8438	NE1	TRP	G	533	6.775	32.068	56.405	1.00	21.53	G	N
20	ATOM	8439	CZ2	TRP	G	533	8.241	33.819	55.353	1.00	23.46	G	C
	ATOM	8440	CZ3	TRP	G	533	9.190	33.095	53.233	1.00	19.65	G	C
	ATOM	8441	CH2	TRP	G	533	9.029	34.060	54.245	1.00	23.92	G	C
	ATOM	8442	C	TRP	G	533	6.875	27.553	56.087	1.00	26.75	G	C
	ATOM	8443	O	TRP	G	533	5.657	27.652	56.210	1.00	25.89	G	O
25	ATOM	8444	N	THR	G	534	7.660	27.069	57.042	1.00	27.83	G	N
	ATOM	8445	CA	THR	G	534	7.120	26.590	58.309	1.00	29.32	G	C
	ATOM	8446	CB	THR	G	534	7.743	25.255	58.676	1.00	30.72	G	C
	ATOM	8447	OG1	THR	G	534	9.168	25.382	58.601	1.00	31.42	G	O
	ATOM	8448	CG2	THR	G	534	7.280	24.157	57.713	1.00	29.76	G	C
30	ATOM	8449	C	THR	G	534	7.357	27.540	59.478	1.00	29.54	G	C
	ATOM	8450	O	THR	G	534	6.752	27.374	60.536	1.00	29.20	G	O
	ATOM	8451	N	LEU	G	535	8.235	28.524	59.298	1.00	29.32	G	N
	ATOM	8452	CA	LEU	G	535	8.516	29.476	60.364	1.00	28.79	G	C
	ATOM	8453	CB	LEU	G	535	9.684	30.380	59.982	1.00	28.71	G	C
35	ATOM	8454	CG	LEU	G	535	9.440	31.322	58.806	1.00	32.83	G	C
	ATOM	8455	CD1	LEU	G	535	10.397	32.487	58.881	1.00	31.83	G	C
	ATOM	8456	CD2	LEU	G	535	9.633	30.565	57.500	1.00	38.07	G	C
	ATOM	8457	C	LEU	G	535	7.281	30.314	60.677	1.00	31.75	G	C
	ATOM	8458	O	LEU	G	535	6.279	30.264	59.953	1.00	35.18	G	O
40	ATOM	8459	N	GLU	G	536	7.353	31.091	61.751	1.00	30.49	G	N
	ATOM	8460	CA	GLU	G	536	6.221	31.897	62.164	1.00	33.25	G	C
	ATOM	8461	CB	GLU	G	536	6.321	32.206	63.658	1.00	36.75	G	C
	ATOM	8462	CG	GLU	G	536	5.050	31.911	64.427	1.00	42.95	G	C
	ATOM	8463	CD	GLU	G	536	5.290	31.805	65.919	1.00	46.73	G	C
45	ATOM	8464	OE1	GLU	G	536	5.013	32.791	66.646	1.00	48.44	G	O
	ATOM	8465	OE2	GLU	G	536	5.757	30.732	66.358	1.00	46.82	G	O
	ATOM	8466	C	GLU	G	536	6.090	33.194	61.393	1.00	31.89	G	C
	ATOM	8467	O	GLU	G	536	5.001	33.768	61.331	1.00	32.19	G	O
	ATOM	8468	N	LYS	G	537	7.198	33.650	60.816	1.00	30.39	G	N
50	ATOM	8469	CA	LYS	G	537	7.230	34.898	60.059	1.00	30.99	G	C
	ATOM	8470	CB	LYS	G	537	8.631	35.145	59.499	1.00	32.74	G	C
	ATOM	8471	CG	LYS	G	537	9.484	36.067	60.347	1.00	40.26	G	C
	ATOM	8472	CD	LYS	G	537	9.196	37.536	60.054	1.00	45.70	G	C
	ATOM	8473	CE	LYS	G	537	10.088	38.453	60.893	1.00	49.75	G	C
	ATOM	8474	NZ	LYS	G	537	9.312	39.551	61.565	1.00	52.95	G	N
55	ATOM	8475	C	LYS	G	537	6.227	34.909	58.910	1.00	29.92	G	C
	ATOM	8476	O	LYS	G	537	6.023	33.906	58.227	1.00	29.12	G	O
	ATOM	8477	N	ASN	G	538	5.607	36.061	58.703	1.00	27.15	G	N
	ATOM	8478	CA	ASN	G	538	4.625	36.220	57.644	1.00	23.35	G	C
60	ATOM	8479	CB	ASN	G	538	3.733	37.428	57.940	1.00	21.45	G	C
	ATOM	8480	CG	ASN	G	538	2.359	37.310	57.313	1.00	19.82	G	C
	ATOM	8481	OD1	ASN	G	538	1.882	36.209	57.061	1.00	20.55	G	O
	ATOM	8482	ND2	ASN	G	538	1.714	38.451	57.062	1.00	18.08	G	N
	ATOM	8483	C	ASN	G	538	5.348	36.467	56.338	1.00	22.53	G	C
65	ATOM	8484	O	ASN	G	538	6.237	37.312	56.279	1.00	22.65	G	O
	ATOM	8485	N	PRO	G	539	5.014	35.703	55.282	1.00	21.19	G	N
	ATOM	8486	CD	PRO	G	539	4.068	34.575	55.220	1.00	18.26	G	C
	ATOM	8487	CA	PRO	G	539	5.688	35.941	53.994	1.00	20.75	G	C
	ATOM	8488	CB	PRO	G	539	5.013	34.951	53.041	1.00	19.22	G	C

	ATOM	8489	CG	PRO	G	539	4.433	33.889	53.929	1.00	18.63	G	C
	ATOM	8490	C	PRO	G	539	5.438	37.403	53.564	1.00	20.08	G	C
	ATOM	8491	O	PRO	G	539	4.453	38.011	53.971	1.00	20.32	G	O
5	ATOM	8492	N	SER	G	540	6.330	37.964	52.754	1.00	20.86	G	N
	ATOM	8493	CA	SER	G	540	6.187	39.341	52.283	1.00	18.58	G	C
	ATOM	8494	CB	SER	G	540	7.428	39.747	51.485	1.00	19.50	G	C
	ATOM	8495	OG	SER	G	540	7.495	39.038	50.258	1.00	21.96	G	O
	ATOM	8496	C	SER	G	540	4.937	39.531	51.412	1.00	20.27	G	C
10	ATOM	8497	O	SER	G	540	4.281	38.560	51.003	1.00	19.20	G	O
	ATOM	8498	N	TYR	G	541	4.617	40.795	51.142	1.00	19.48	G	N
	ATOM	8499	CA	TYR	G	541	3.472	41.163	50.318	1.00	16.07	G	C
	ATOM	8500	CB	TYR	G	541	3.413	42.691	50.225	1.00	16.28	G	C
	ATOM	8501	CG	TYR	G	541	2.300	43.257	49.376	1.00	19.80	G	C
15	ATOM	8502	CD1	TYR	G	541	2.428	43.352	47.987	1.00	19.23	G	C
	ATOM	8503	CE1	TYR	G	541	1.395	43.892	47.212	1.00	17.97	G	C
	ATOM	8504	CD2	TYR	G	541	1.117	43.716	49.963	1.00	18.61	G	C
	ATOM	8505	CE2	TYR	G	541	0.090	44.252	49.200	1.00	17.83	G	C
	ATOM	8506	CZ	TYR	G	541	0.230	44.337	47.828	1.00	18.58	G	C
20	ATOM	8507	OH	TYR	G	541	-0.822	44.833	47.085	1.00	16.67	G	O
	ATOM	8508	C	TYR	G	541	3.598	40.531	48.922	1.00	15.94	G	C
	ATOM	8509	O	TYR	G	541	2.659	39.927	48.416	1.00	16.71	G	O
	ATOM	8510	N	THR	G	542	4.767	40.653	48.306	1.00	17.15	G	N
	ATOM	8511	CA	THR	G	542	4.978	40.088	46.975	1.00	19.52	G	C
25	ATOM	8512	CB	THR	G	542	6.345	40.510	46.421	1.00	18.14	G	C
	ATOM	8513	OG1	THR	G	542	6.361	41.934	46.283	1.00	14.96	G	O
	ATOM	8514	CG2	THR	G	542	6.595	39.872	45.063	1.00	17.34	G	C
	ATOM	8515	C	THR	G	542	4.850	38.564	46.971	1.00	20.29	G	C
	ATOM	8516	O	THR	G	542	4.297	37.983	46.031	1.00	21.53	G	O
30	ATOM	8517	N	TYR	G	543	5.345	37.924	48.027	1.00	21.04	G	N
	ATOM	8518	CA	TYR	G	543	5.248	36.467	48.157	1.00	19.45	G	C
	ATOM	8519	CB	TYR	G	543	5.857	36.025	49.487	1.00	19.32	G	C
	ATOM	8520	CG	TYR	G	543	6.046	34.530	49.632	1.00	18.15	G	C
	ATOM	8521	CD1	TYR	G	543	4.974	33.699	49.962	1.00	18.56	G	C
35	ATOM	8522	CE1	TYR	G	543	5.150	32.324	50.133	1.00	18.16	G	C
	ATOM	8523	CD2	TYR	G	543	7.303	33.949	49.475	1.00	18.13	G	C
	ATOM	8524	CE2	TYR	G	543	7.492	32.574	49.643	1.00	18.41	G	C
	ATOM	8525	CZ	TYR	G	543	6.409	31.773	49.972	1.00	19.29	G	C
	ATOM	8526	OH	TYR	G	543	6.575	30.420	50.135	1.00	20.94	G	O
40	ATOM	8527	C	TYR	G	543	3.768	36.073	48.113	1.00	18.98	G	C
	ATOM	8528	O	TYR	G	543	3.372	35.128	47.415	1.00	17.77	G	O
	ATOM	8529	N	TYR	G	544	2.954	36.793	48.876	1.00	17.72	G	N
	ATOM	8530	CA	TYR	G	544	1.524	36.531	48.905	1.00	18.35	G	C
	ATOM	8531	CB	TYR	G	544	0.836	37.455	49.923	1.00	19.21	G	C
45	ATOM	8532	CG	TYR	G	544	0.687	36.926	51.342	1.00	19.00	G	C
	ATOM	8533	CD1	TYR	G	544	1.652	37.207	52.321	1.00	18.53	G	C
	ATOM	8534	CE1	TYR	G	544	1.466	36.823	53.651	1.00	18.01	G	C
	ATOM	8535	CD2	TYR	G	544	-0.466	36.232	51.734	1.00	17.55	G	C
	ATOM	8536	CE2	TYR	G	544	-0.659	35.840	53.071	1.00	18.30	G	C
50	ATOM	8537	CZ	TYR	G	544	0.311	36.146	54.021	1.00	20.08	G	C
	ATOM	8538	OH	TYR	G	544	0.114	35.799	55.348	1.00	23.59	G	O
	ATOM	8539	C	TYR	G	544	0.934	36.801	47.494	1.00	21.34	G	C
	ATOM	8540	O	TYR	G	544	0.192	35.977	46.940	1.00	20.30	G	O
	ATOM	8541	N	ALA	G	545	1.271	37.955	46.919	1.00	19.22	G	N
55	ATOM	8542	CA	ALA	G	545	0.757	38.339	45.607	1.00	17.69	G	C
	ATOM	8543	CB	ALA	G	545	1.306	39.717	45.208	1.00	14.50	G	C
	ATOM	8544	C	ALA	G	545	1.103	37.307	44.538	1.00	18.43	G	C
	ATOM	8545	O	ALA	G	545	0.244	36.922	43.742	1.00	18.04	G	O
	ATOM	8546	N	TYR	G	546	2.350	36.849	44.510	1.00	15.93	G	N
60	ATOM	8547	CA	TYR	G	546	2.710	35.887	43.493	1.00	18.47	G	C
	ATOM	8548	CB	TYR	G	546	4.182	35.480	43.586	1.00	19.77	G	C
	ATOM	8549	CG	TYR	G	546	4.492	34.391	42.584	1.00	22.57	G	C
	ATOM	8550	CD1	TYR	G	546	4.656	34.692	41.230	1.00	24.54	G	C
	ATOM	8551	CE1	TYR	G	546	4.824	33.687	40.279	1.00	23.62	G	C
65	ATOM	8552	CD2	TYR	G	546	4.514	33.052	42.966	1.00	23.25	G	C
	ATOM	8553	CE2	TYR	G	546	4.680	32.038	42.027	1.00	26.24	G	C
	ATOM	8554	CZ	TYR	G	546	4.832	32.361	40.680	1.00	28.90	G	C
	ATOM	8555	OH	TYR	G	546	4.966	31.356	39.735	1.00	32.24	G	O
	ATOM	8556	C	TYR	G	546	1.859	34.632	43.555	1.00	19.71	G	C

	ATOM	8557	O	TYR	G	546	1.301	34.198	42.549	1.00	21.27	G	O
	ATOM	8558	N	TYR	G	547	1.750	34.042	44.737	1.00	19.81	G	N
	ATOM	8559	CA	TYR	G	547	0.993	32.811	44.861	1.00	17.54	G	C
5	ATOM	8560	CB	TYR	G	547	1.335	32.126	46.187	1.00	16.67	G	C
	ATOM	8561	CG	TYR	G	547	2.704	31.484	46.120	1.00	16.74	G	C
	ATOM	8562	CD1	TYR	G	547	2.901	30.308	45.398	1.00	14.50	G	C
	ATOM	8563	CE1	TYR	G	547	4.178	29.765	45.239	1.00	15.25	G	C
	ATOM	8564	CD2	TYR	G	547	3.822	32.105	46.696	1.00	15.92	G	C
10	ATOM	8565	CE2	TYR	G	547	5.106	31.568	46.542	1.00	13.48	G	C
	ATOM	8566	CZ	TYR	G	547	5.274	30.399	45.809	1.00	17.57	G	C
	ATOM	8567	OH	TYR	G	547	6.541	29.875	45.615	1.00	19.20	G	O
	ATOM	8568	C	TYR	G	547	-0.506	32.967	44.670	1.00	17.81	G	C
	ATOM	8569	O	TYR	G	547	-1.187	32.018	44.278	1.00	17.62	G	O
15	ATOM	8570	N	MET	G	548	-1.035	34.154	44.929	1.00	15.58	G	N
	ATOM	8571	CA	MET	G	548	-2.456	34.347	44.720	1.00	16.26	G	C
	ATOM	8572	CB	MET	G	548	-2.927	35.596	45.457	1.00	16.29	G	C
	ATOM	8573	CG	MET	G	548	-3.346	35.285	46.888	1.00	18.61	G	C
	ATOM	8574	SD	MET	G	548	-4.447	36.515	47.580	1.00	29.71	G	S
20	ATOM	8575	CE	MET	G	548	-6.039	35.832	47.144	1.00	25.28	G	C
	ATOM	8576	C	MET	G	548	-2.674	34.461	43.208	1.00	16.99	G	C
	ATOM	8577	O	MET	G	548	-3.616	33.879	42.650	1.00	15.21	G	O
	ATOM	8578	N	TYR	G	549	-1.776	35.189	42.550	1.00	15.86	G	N
	ATOM	8579	CA	TYR	G	549	-1.854	35.362	41.107	1.00	16.83	G	C
25	ATOM	8580	CB	TYR	G	549	-0.738	36.300	40.615	1.00	15.45	G	C
	ATOM	8581	CG	TYR	G	549	-0.570	36.293	39.100	1.00	19.22	G	C
	ATOM	8582	CD1	TYR	G	549	-1.337	37.135	38.284	1.00	17.58	G	C
	ATOM	8583	CE1	TYR	G	549	-1.245	37.071	36.878	1.00	18.30	G	C
	ATOM	8584	CD2	TYR	G	549	0.305	35.392	38.474	1.00	19.26	G	C
	ATOM	8585	CE2	TYR	G	549	0.401	35.322	37.074	1.00	17.84	G	C
30	ATOM	8586	CZ	TYR	G	549	-0.380	36.156	36.288	1.00	16.93	G	C
	ATOM	8587	OH	TYR	G	549	-0.348	36.041	34.921	1.00	18.12	G	O
	ATOM	8588	C	TYR	G	549	-1.708	33.993	40.433	1.00	18.13	G	C
	ATOM	8589	O	TYR	G	549	-2.499	33.620	39.565	1.00	18.71	G	O
	ATOM	8590	N	ALA	G	550	-0.688	33.248	40.848	1.00	18.51	G	N
35	ATOM	8591	CA	ALA	G	550	-0.406	31.938	40.289	1.00	18.41	G	C
	ATOM	8592	CB	ALA	G	550	0.774	31.301	41.030	1.00	18.08	G	C
	ATOM	8593	C	ALA	G	550	-1.610	30.999	40.316	1.00	20.80	G	C
	ATOM	8594	O	ALA	G	550	-1.919	30.349	39.312	1.00	21.58	G	O
	ATOM	8595	N	ASN	G	551	-2.290	30.922	41.459	1.00	19.37	G	N
40	ATOM	8596	CA	ASN	G	551	-3.445	30.040	41.589	1.00	17.25	G	C
	ATOM	8597	CB	ASN	G	551	-3.790	29.835	43.069	1.00	18.22	G	C
	ATOM	8598	CG	ASN	G	551	-2.894	28.805	43.729	1.00	18.97	G	C
	ATOM	8599	OD1	ASN	G	551	-1.898	29.147	44.371	1.00	20.35	G	O
	ATOM	8600	ND2	ASN	G	551	-3.234	27.537	43.560	1.00	14.02	G	N
45	ATOM	8601	C	ASN	G	551	-4.656	30.566	40.843	1.00	16.03	G	C
	ATOM	8602	O	ASN	G	551	-5.424	29.790	40.286	1.00	16.77	G	O
	ATOM	8603	N	ILE	G	552	-4.835	31.884	40.842	1.00	16.64	G	N
	ATOM	8604	CA	ILE	G	552	-5.962	32.492	40.141	1.00	15.74	G	C
	ATOM	8605	CB	ILE	G	552	-6.087	34.005	40.515	1.00	15.57	G	C
50	ATOM	8606	CG2	ILE	G	552	-7.020	34.746	39.532	1.00	11.36	G	C
	ATOM	8607	CG1	ILE	G	552	-6.636	34.116	41.948	1.00	11.42	G	C
	ATOM	8608	CD1	ILE	G	552	-6.602	35.511	42.528	1.00	7.43	G	C
	ATOM	8609	C	ILE	G	552	-5.780	32.294	38.625	1.00	16.13	G	C
	ATOM	8610	O	ILE	G	552	-6.743	32.082	37.896	1.00	15.46	G	O
55	ATOM	8611	N	MET	G	553	-4.536	32.323	38.163	1.00	18.30	G	N
	ATOM	8612	CA	MET	G	553	-4.264	32.119	36.744	1.00	21.96	G	C
	ATOM	8613	CB	MET	G	553	-2.776	32.265	36.454	1.00	20.79	G	C
	ATOM	8614	CG	MET	G	553	-2.363	31.545	35.178	1.00	27.29	G	C
	ATOM	8615	SD	MET	G	553	-0.655	31.852	34.758	1.00	35.70	G	S
60	ATOM	8616	CE	MET	G	553	-0.429	30.728	33.408	1.00	31.99	G	C
	ATOM	8617	C	MET	G	553	-4.717	30.724	36.298	1.00	22.80	G	C
	ATOM	8618	O	MET	G	553	-5.472	30.582	35.329	1.00	22.62	G	O
	ATOM	8619	N	VAL	G	554	-4.241	29.700	37.008	1.00	22.21	G	N
	ATOM	8620	CA	VAL	G	554	-4.590	28.315	36.692	1.00	18.89	G	C
65	ATOM	8621	CB	VAL	G	554	-3.830	27.310	37.622	1.00	19.00	G	C
	ATOM	8622	CG1	VAL	G	554	-4.159	25.873	37.233	1.00	17.63	G	C
	ATOM	8623	CG2	VAL	G	554	-2.331	27.523	37.511	1.00	15.77	G	C
	ATOM	8624	C	VAL	G	554	-6.098	28.125	36.845	1.00	18.00	G	C

	ATOM	8625	O	VAL	G	554	-6.749	27.518	35.998	1.00	20.43	G	O
	ATOM	8626	N	LEU	G	555	-6.665	28.660	37.920	1.00	16.77	G	N
	ATOM	8627	CA	LEU	G	555	-8.095	28.527	38.148	1.00	14.16	G	C
	ATOM	8628	CB	LEU	G	555	-8.490	29.222	39.459	1.00	13.11	G	C
5	ATOM	8629	CG	LEU	G	555	-9.974	29.180	39.864	1.00	11.09	G	C
	ATOM	8630	CD1	LEU	G	555	-10.454	27.753	39.985	1.00	10.27	G	C
	ATOM	8631	CD2	LEU	G	555	-10.146	29.898	41.183	1.00	10.90	G	C
	ATOM	8632	C	LEU	G	555	-8.894	29.120	36.995	1.00	15.49	G	C
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10	ATOM	8633	O	LEU	G	555	-9.843	28.519	36.526	1.00	16.18	G	O
	ATOM	8634	N	ASN	G	556	-8.505	30.308	36.543	1.00	18.24	G	N
	ATOM	8635	CA	ASN	G	556	-9.212	30.977	35.460	1.00	16.14	G	C
	ATOM	8636	CB	ASN	G	556	-8.661	32.397	35.274	1.00	16.63	G	C
	ATOM	8637	CG	ASN	G	556	-9.189	33.381	36.326	1.00	17.35	G	C
	ATOM	8638	OD1	ASN	G	556	-10.130	33.089	37.064	1.00	16.34	G	O
15	ATOM	8639	ND2	ASN	G	556	-8.580	34.550	36.387	1.00	16.64	G	N
	ATOM	8640	C	ASN	G	556	-9.116	30.188	34.157	1.00	17.89	G	C
	ATOM	8641	O	ASN	G	556	-10.082	30.120	33.398	1.00	16.94	G	O
	ATOM	8642	N	SER	G	557	-7.949	29.598	33.909	1.00	20.27	G	N
20	ATOM	8643	CA	SER	G	557	-7.704	28.796	32.711	1.00	21.39	G	C
	ATOM	8644	CB	SER	G	557	-6.280	28.244	32.718	1.00	20.56	G	C
	ATOM	8645	OG	SER	G	557	-5.338	29.297	32.780	1.00	29.20	G	O
	ATOM	8646	C	SER	G	557	-8.670	27.628	32.695	1.00	22.73	G	C
	ATOM	8647	O	SER	G	557	-9.308	27.332	31.682	1.00	22.50	G	O
25	ATOM	8648	N	LEU	G	558	-8.771	26.962	33.837	1.00	22.95	G	N
	ATOM	8649	CA	LEU	G	558	-9.647	25.821	33.959	1.00	22.60	G	C
	ATOM	8650	CB	LEU	G	558	-9.434	25.151	35.310	1.00	23.60	G	C
	ATOM	8651	CG	LEU	G	558	-10.395	24.010	35.654	1.00	27.89	G	C
	ATOM	8652	CD1	LEU	G	558	-10.193	22.856	34.678	1.00	26.21	G	C
	ATOM	8653	CD2	LEU	G	558	-10.142	23.549	37.085	1.00	26.87	G	C
30	ATOM	8654	C	LEU	G	558	-11.109	26.211	33.792	1.00	22.85	G	C
	ATOM	8655	O	LEU	G	558	-11.842	25.578	33.034	1.00	22.08	G	O
	ATOM	8656	N	ARG	G	559	-11.528	27.275	34.468	1.00	23.45	G	N
	ATOM	8657	CA	ARG	G	559	-12.919	27.708	34.406	1.00	20.98	G	C
35	ATOM	8658	CB	ARG	G	559	-13.199	28.761	35.487	1.00	18.32	G	C
	ATOM	8659	CG	ARG	G	559	-13.440	28.148	36.890	1.00	18.89	G	C
	ATOM	8660	CD	ARG	G	559	-13.786	29.201	37.942	1.00	15.42	G	C
	ATOM	8661	NE	ARG	G	559	-15.216	29.516	37.974	1.00	15.56	G	N
	ATOM	8662	CZ	ARG	G	559	-16.137	28.791	38.610	1.00	12.83	G	C
40	ATOM	8663	NH1	ARG	G	559	-15.794	27.693	39.277	1.00	11.89	G	N
	ATOM	8664	NH2	ARG	G	559	-17.404	29.173	38.598	1.00	10.37	G	N
	ATOM	8665	C	ARG	G	559	-13.328	28.230	33.042	1.00	22.78	G	C
	ATOM	8666	O	ARG	G	559	-14.480	28.046	32.627	1.00	23.60	G	O
	ATOM	8667	N	LYS	G	560	-12.396	28.893	32.358	1.00	26.24	G	N
45	ATOM	8668	CA	LYS	G	560	-12.655	29.435	31.021	1.00	26.87	G	C
	ATOM	8669	CB	LYS	G	560	-11.394	30.130	30.477	1.00	26.24	G	C
	ATOM	8670	CG	LYS	G	560	-11.499	30.630	29.037	1.00	29.68	G	C
	ATOM	8671	CD	LYS	G	560	-12.202	31.990	28.949	1.00	35.36	G	C
	ATOM	8672	CE	LYS	G	560	-12.176	32.583	27.523	1.00	39.47	G	C
50	ATOM	8673	NZ	LYS	G	560	-12.338	34.097	27.479	1.00	37.02	G	N
	ATOM	8674	C	LYS	G	560	-13.034	28.255	30.127	1.00	26.02	G	C
	ATOM	8675	O	LYS	G	560	-14.062	28.264	29.459	1.00	26.15	G	O
	ATOM	8676	N	GLU	G	561	-12.206	27.221	30.153	1.00	28.67	G	N
	ATOM	8677	CA	GLU	G	561	-12.437	26.034	29.350	1.00	30.99	G	C
55	ATOM	8678	CB	GLU	G	561	-11.291	25.051	29.546	1.00	35.08	G	C
	ATOM	8679	CG	GLU	G	561	-10.201	25.177	28.500	1.00	47.87	G	C
	ATOM	8680	CD	GLU	G	561	-9.009	24.291	28.807	1.00	54.46	G	C
	ATOM	8681	OE1	GLU	G	561	-9.225	23.118	29.207	1.00	56.67	G	O
	ATOM	8682	OE2	GLU	G	561	-7.857	24.767	28.651	1.00	58.44	G	O
60	ATOM	8683	C	GLU	G	561	-13.755	25.344	29.654	1.00	31.33	G	C
	ATOM	8684	O	GLU	G	561	-14.361	24.757	28.762	1.00	34.68	G	O
	ATOM	8685	N	ARG	G	562	-14.200	25.410	30.909	1.00	29.74	G	N
	ATOM	8686	CA	ARG	G	562	-15.462	24.781	31.323	1.00	23.91	G	C
	ATOM	8687	CB	ARG	G	562	-15.481	24.532	32.843	1.00	22.02	G	C
	ATOM	8688	CG	ARG	G	562	-14.447	23.517	33.332	1.00	23.36	G	C
65	ATOM	8689	CD	ARG	G	562	-15.049	22.485	34.272	1.00	27.03	G	C
	ATOM	8690	NE	ARG	G	562	-16.014	21.602	33.616	1.00	26.30	G	N
	ATOM	8691	CZ	ARG	G	562	-16.814	20.744	34.247	1.00	26.85	G	C
	ATOM	8692	NH1	ARG	G	562	-16.783	20.631	35.570	1.00	26.56	G	N

	ATOM	8693	NH2	ARG	G	562	-17.660	19.999	33.551	1.00	26.22	G	N
	ATOM	8694	C	ARG	G	562	-16.643	25.646	30.951	1.00	21.31	G	C
	ATOM	8695	O	ARG	G	562	-17.781	25.237	31.091	1.00	21.11	G	O
5	ATOM	8696	N	GLY	G	563	-16.375	26.852	30.474	1.00	22.40	G	N
	ATOM	8697	CA	GLY	G	563	-17.468	27.735	30.121	1.00	21.45	G	C
	ATOM	8698	C	GLY	G	563	-17.991	28.468	31.345	1.00	23.42	G	C
	ATOM	8699	O	GLY	G	563	-19.081	29.049	31.308	1.00	22.76	G	O
	ATOM	8700	N	MET	G	564	-17.210	28.454	32.427	1.00	24.36	G	N
10	ATOM	8701	CA	MET	G	564	-17.597	29.117	33.674	1.00	22.46	G	C
	ATOM	8702	CB	MET	G	564	-17.145	28.268	34.861	1.00	23.53	G	C
	ATOM	8703	CG	MET	G	564	-17.870	26.940	35.004	1.00	23.92	G	C
	ATOM	8704	SD	MET	G	564	-17.010	25.849	36.173	1.00	24.44	G	S
	ATOM	8705	CE	MET	G	564	-18.309	24.710	36.598	1.00	23.69	G	C
	ATOM	8706	C	MET	G	564	-16.974	30.512	33.782	1.00	22.79	G	C
15	ATOM	8707	O	MET	G	564	-16.102	30.882	32.988	1.00	22.40	G	O
	ATOM	8708	N	ASN	G	565	-17.423	31.283	34.772	1.00	21.38	G	N
	ATOM	8709	CA	ASN	G	565	-16.900	32.630	35.000	1.00	17.00	G	C
	ATOM	8710	CB	ASN	G	565	-17.824	33.409	35.957	1.00	18.27	G	C
20	ATOM	8711	CG	ASN	G	565	-17.980	32.733	37.332	1.00	16.81	G	C
	ATOM	8712	OD1	ASN	G	565	-18.407	31.579	37.433	1.00	18.35	G	O
	ATOM	8713	ND2	ASN	G	565	-17.642	33.465	38.392	1.00	16.52	G	N
	ATOM	8714	C	ASN	G	565	-15.481	32.564	35.571	1.00	17.92	G	C
	ATOM	8715	O	ASN	G	565	-15.105	31.564	36.212	1.00	17.43	G	O
25	ATOM	8716	N	THR	G	566	-14.694	33.614	35.324	1.00	15.33	G	N
	ATOM	8717	CA	THR	G	566	-13.324	33.680	35.809	1.00	13.44	G	C
	ATOM	8718	CB	THR	G	566	-12.336	33.915	34.647	1.00	17.64	G	C
	ATOM	8719	OG1	THR	G	566	-12.641	35.158	33.995	1.00	17.26	G	O
	ATOM	8720	CG2	THR	G	566	-12.432	32.768	33.640	1.00	16.32	G	C
30	ATOM	8721	C	THR	G	566	-13.233	34.814	36.825	1.00	13.73	G	C
	ATOM	8722	O	THR	G	566	-14.201	35.554	37.001	1.00	13.77	G	O
	ATOM	8723	N	PHE	G	567	-12.081	34.961	37.476	1.00	12.73	G	N
	ATOM	8724	CA	PHE	G	567	-11.924	35.978	38.516	1.00	13.81	G	C
	ATOM	8725	CB	PHE	G	567	-11.696	35.307	39.877	1.00	11.83	G	C
35	ATOM	8726	CG	PHE	G	567	-12.642	34.187	40.161	1.00	10.82	G	C
	ATOM	8727	CD1	PHE	G	567	-13.961	34.450	40.489	1.00	10.18	G	C
	ATOM	8728	CD2	PHE	G	567	-12.217	32.867	40.080	1.00	11.77	G	C
	ATOM	8729	CE1	PHE	G	567	-14.854	33.412	40.737	1.00	13.14	G	C
	ATOM	8730	CE2	PHE	G	567	-13.098	31.819	40.323	1.00	14.86	G	C
40	ATOM	8731	CZ	PHE	G	567	-14.423	32.091	40.653	1.00	12.25	G	C
	ATOM	8732	C	PHE	G	567	-10.817	36.984	38.325	1.00	14.97	G	C
	ATOM	8733	O	PHE	G	567	-9.771	36.683	37.739	1.00	16.85	G	O
	ATOM	8734	N	LEU	G	568	-11.045	38.180	38.866	1.00	15.71	G	N
	ATOM	8735	CA	LEU	G	568	-10.056	39.246	38.806	1.00	14.79	G	C
45	ATOM	8736	CB	LEU	G	568	-10.748	40.602	38.604	1.00	13.47	G	C
	ATOM	8737	CG	LEU	G	568	-11.520	40.840	37.296	1.00	10.99	G	C
	ATOM	8738	CD1	LEU	G	568	-11.918	42.303	37.213	1.00	7.36	G	C
	ATOM	8739	CD2	LEU	G	568	-10.646	40.461	36.102	1.00	9.11	G	C
	ATOM	8740	C	LEU	G	568	-9.277	39.268	40.121	1.00	15.85	G	C
50	ATOM	8741	O	LEU	G	568	-9.786	38.826	41.163	1.00	15.77	G	O
	ATOM	8742	N	PHE	G	569	-8.038	39.749	40.065	1.00	14.24	G	N
	ATOM	8743	CA	PHE	G	569	-7.210	39.891	41.260	1.00	15.11	G	C
	ATOM	8744	CB	PHE	G	569	-5.798	39.306	41.039	1.00	16.24	G	C
	ATOM	8745	CG	PHE	G	569	-4.898	39.383	42.260	1.00	12.61	G	C
55	ATOM	8746	CD1	PHE	G	569	-5.402	39.122	43.534	1.00	10.48	G	C
	ATOM	8747	CD2	PHE	G	569	-3.550	39.727	42.129	1.00	11.44	G	C
	ATOM	8748	CE1	PHE	G	569	-4.576	39.204	44.664	1.00	11.14	G	C
	ATOM	8749	CE2	PHE	G	569	-2.707	39.814	43.259	1.00	12.66	G	C
	ATOM	8750	CZ	PHE	G	569	-3.225	39.552	44.526	1.00	11.06	G	C
60	ATOM	8751	C	PHE	G	569	-7.134	41.407	41.489	1.00	14.19	G	C
	ATOM	8752	O	PHE	G	569	-6.530	42.128	40.685	1.00	12.41	G	O
	ATOM	8753	N	ARG	G	570	-7.775	41.877	42.565	1.00	14.41	G	N
	ATOM	8754	CA	ARG	G	570	-7.819	43.305	42.913	1.00	11.49	G	C
	ATOM	8755	CB	ARG	G	570	-9.216	43.841	42.640	1.00	10.21	G	C
65	ATOM	8756	CG	ARG	G	570	-9.804	43.342	41.315	1.00	9.54	G	C
	ATOM	8757	CD	ARG	G	570	-11.308	43.585	41.208	1.00	8.99	G	C
	ATOM	8758	NE	ARG	G	570	-11.660	44.950	41.581	1.00	12.73	G	N
	ATOM	8759	CZ	ARG	G	570	-12.892	45.437	41.606	1.00	8.65	G	C
	ATOM	8760	NH1	ARG	G	570	-13.923	44.673	41.274	1.00	8.36	G	N

	ATOM	8761	NH2	ARG	G	570	-13.088	46.685	42.003	1.00	9.78	G	N
	ATOM	8762	C	ARG	G	570	-7.440	43.552	44.382	1.00	12.63	G	C
	ATOM	8763	O	ARG	G	570	-8.293	43.818	45.224	1.00	11.46	G	O
	ATOM	8764	N	PRO	G	571	-6.135	43.519	44.692	1.00	12.58	G	N
5	ATOM	8765	CD	PRO	G	571	-5.012	43.318	43.753	1.00	11.63	G	C
	ATOM	8766	CA	PRO	G	571	-5.658	43.730	46.062	1.00	11.47	G	C
	ATOM	8767	CB	PRO	G	571	-4.281	43.099	46.046	1.00	10.76	G	C
	ATOM	8768	CG	PRO	G	571	-3.776	43.461	44.645	1.00	12.50	G	C
10	ATOM	8769	C	PRO	G	571	-5.562	45.181	46.521	1.00	14.91	G	C
	ATOM	8770	O	PRO	G	571	-5.576	46.130	45.712	1.00	12.93	G	O
	ATOM	8771	N	HIS	G	572	-5.475	45.331	47.843	1.00	12.43	G	N
	ATOM	8772	CA	HIS	G	572	-5.271	46.632	48.463	1.00	11.52	G	C
	ATOM	8773	CB	HIS	G	572	-5.448	46.514	49.975	1.00	8.44	G	C
	ATOM	8774	CG	HIS	G	572	-6.867	46.648	50.425	1.00	7.38	G	C
15	ATOM	8775	CD2	HIS	G	572	-7.445	47.477	51.329	1.00	7.89	G	C
	ATOM	8776	ND1	HIS	G	572	-7.883	45.878	49.904	1.00	6.01	G	N
	ATOM	8777	CE1	HIS	G	572	-9.026	46.226	50.466	1.00	7.11	G	C
	ATOM	8778	NE2	HIS	G	572	-8.788	47.194	51.335	1.00	7.43	G	N
	ATOM	8779	C	HIS	G	572	-3.801	46.867	48.131	1.00	8.42	G	C
20	ATOM	8780	O	HIS	G	572	-2.984	45.962	48.319	1.00	11.13	G	O
	ATOM	8781	N	CYS	G	573	-3.443	48.047	47.642	1.00	8.63	G	N
	ATOM	8782	CA	CYS	G	573	-2.049	48.263	47.277	1.00	8.74	G	C
	ATOM	8783	CB	CYS	G	573	-1.813	47.715	45.871	1.00	6.82	G	C
	ATOM	8784	SG	CYS	G	573	-0.104	47.630	45.356	1.00	16.34	G	S
25	ATOM	8785	C	CYS	G	573	-1.657	49.717	47.315	1.00	9.42	G	C
	ATOM	8786	O	CYS	G	573	-2.395	50.573	46.836	1.00	12.66	G	O
	ATOM	8787	N	GLY	G	574	-0.493	49.996	47.885	1.00	9.39	G	N
	ATOM	8788	CA	GLY	G	574	-0.011	51.367	47.940	1.00	12.77	G	C
	ATOM	8789	C	GLY	G	574	-0.581	52.275	49.016	1.00	14.24	G	C
30	ATOM	8790	O	GLY	G	574	-0.367	53.483	48.983	1.00	15.25	G	O
	ATOM	8791	N	GLU	G	575	-1.326	51.716	49.963	1.00	15.73	G	N
	ATOM	8792	CA	GLU	G	575	-1.866	52.533	51.037	1.00	16.16	G	C
	ATOM	8793	CB	GLU	G	575	-2.846	51.752	51.887	1.00	14.31	G	C
	ATOM	8794	CG	GLU	G	575	-3.489	52.606	52.917	1.00	13.91	G	C
35	ATOM	8795	CD	GLU	G	575	-4.498	51.840	53.687	1.00	15.91	G	C
	ATOM	8796	OE1	GLU	G	575	-5.454	52.448	54.200	1.00	22.17	G	O
	ATOM	8797	OE2	GLU	G	575	-4.338	50.613	53.771	1.00	19.82	G	O
	ATOM	8798	C	GLU	G	575	-0.684	52.923	51.895	1.00	16.61	G	C
	ATOM	8799	O	GLU	G	575	-0.653	54.001	52.473	1.00	18.23	G	O
40	ATOM	8800	N	VAL	G	576	0.282	52.019	51.981	1.00	19.04	G	N
	ATOM	8801	CA	VAL	G	576	1.508	52.251	52.738	1.00	19.60	G	C
	ATOM	8802	CB	VAL	G	576	1.276	52.290	54.254	1.00	20.51	G	C
	ATOM	8803	CG1	VAL	G	576	0.960	53.699	54.690	1.00	26.80	G	C
	ATOM	8804	CG2	VAL	G	576	0.167	51.344	54.636	1.00	28.90	G	C
45	ATOM	8805	C	VAL	G	576	2.439	51.106	52.445	1.00	19.47	G	C
	ATOM	8806	O	VAL	G	576	2.132	50.245	51.609	1.00	17.51	G	O
	ATOM	8807	N	GLY	G	577	3.573	51.082	53.137	1.00	17.93	G	N
	ATOM	8808	CA	GLY	G	577	4.516	50.007	52.908	1.00	18.60	G	C
	ATOM	8809	C	GLY	G	577	5.458	50.360	51.775	1.00	18.53	G	C
50	ATOM	8810	O	GLY	G	577	5.487	51.509	51.328	1.00	15.28	G	O
	ATOM	8811	N	ALA	G	578	6.218	49.365	51.314	1.00	19.54	G	N
	ATOM	8812	CA	ALA	G	578	7.203	49.535	50.239	1.00	20.25	G	C
	ATOM	8813	CB	ALA	G	578	8.125	48.310	50.198	1.00	18.44	G	C
	ATOM	8814	C	ALA	G	578	6.591	49.782	48.847	1.00	20.75	G	C
55	ATOM	8815	O	ALA	G	578	5.477	49.352	48.549	1.00	21.73	G	O
	ATOM	8816	N	LEU	G	579	7.338	50.478	47.999	1.00	21.68	G	N
	ATOM	8817	CA	LEU	G	579	6.890	50.785	46.646	1.00	22.64	G	C
	ATOM	8818	CB	LEU	G	579	7.891	51.709	45.947	1.00	22.36	G	C
	ATOM	8819	CG	LEU	G	579	7.798	53.193	46.284	1.00	23.72	G	C
60	ATOM	8820	CD1	LEU	G	579	8.905	53.922	45.565	1.00	27.22	G	C
	ATOM	8821	CD2	LEU	G	579	6.441	53.740	45.901	1.00	23.43	G	C
	ATOM	8822	C	LEU	G	579	6.786	49.501	45.856	1.00	23.81	G	C
	ATOM	8823	O	LEU	G	579	5.986	49.394	44.930	1.00	26.08	G	O
	ATOM	8824	N	THR	G	580	7.606	48.523	46.219	1.00	23.19	G	N
65	ATOM	8825	CA	THR	G	580	7.593	47.264	45.516	1.00	22.58	G	C
	ATOM	8826	CB	THR	G	580	8.595	46.281	46.119	1.00	24.73	G	C
	ATOM	8827	OG1	THR	G	580	8.268	46.052	47.489	1.00	28.29	G	O
	ATOM	8828	CG2	THR	G	580	10.007	46.840	46.022	1.00	24.53	G	C

	ATOM	8829	C	THR	G	580	6.202	46.657	45.543	1.00	20.72	G	C
	ATOM	8830	O	THR	G	580	5.912	45.743	44.780	1.00	23.58	G	O
	ATOM	8831	N	HIS	G	581	5.337	47.156	46.419	1.00	16.88	G	N
5	ATOM	8832	CA	HIS	G	581	3.981	46.633	46.464	1.00	17.51	G	C
	ATOM	8833	CB	HIS	G	581	3.192	47.227	47.632	1.00	18.16	G	C
	ATOM	8834	CG	HIS	G	581	3.623	46.727	48.974	1.00	17.66	G	C
	ATOM	8835	CD2	HIS	G	581	4.670	45.953	49.343	1.00	16.29	G	C
	ATOM	8836	ND1	HIS	G	581	2.957	47.052	50.136	1.00	17.24	G	N
10	ATOM	8837	CE1	HIS	G	581	3.577	46.500	51.163	1.00	18.43	G	C
	ATOM	8838	NE2	HIS	G	581	4.620	45.829	50.709	1.00	17.21	G	N
	ATOM	8839	C	HIS	G	581	3.272	47.011	45.176	1.00	16.90	G	C
	ATOM	8840	O	HIS	G	581	2.545	46.204	44.599	1.00	16.42	G	O
	ATOM	8841	N	LEU	G	582	3.488	48.251	44.738	1.00	15.17	G	N
15	ATOM	8842	CA	LEU	G	582	2.854	48.760	43.531	1.00	14.59	G	C
	ATOM	8843	CB	LEU	G	582	2.958	50.288	43.508	1.00	12.29	G	C
	ATOM	8844	CG	LEU	G	582	1.993	50.899	44.538	1.00	8.80	G	C
	ATOM	8845	CD1	LEU	G	582	2.468	52.258	44.924	1.00	8.07	G	C
	ATOM	8846	CD2	LEU	G	582	0.571	50.960	43.971	1.00	6.35	G	C
20	ATOM	8847	C	LEU	G	582	3.452	48.132	42.285	1.00	15.76	G	C
	ATOM	8848	O	LEU	G	582	2.757	47.908	41.288	1.00	19.04	G	O
	ATOM	8849	N	MET	G	583	4.742	47.828	42.352	1.00	16.66	G	N
	ATOM	8850	CA	MET	G	583	5.422	47.190	41.242	1.00	17.06	G	C
	ATOM	8851	CB	MET	G	583	6.909	47.087	41.581	1.00	18.05	G	C
25	ATOM	8852	CG	MET	G	583	7.775	46.479	40.498	1.00	27.24	G	C
	ATOM	8853	SD	MET	G	583	8.385	44.833	40.980	1.00	38.03	G	S
	ATOM	8854	CE	MET	G	583	7.062	43.830	40.422	1.00	30.31	G	C
	ATOM	8855	C	MET	G	583	4.790	45.789	41.019	1.00	18.70	G	C
	ATOM	8856	O	MET	G	583	4.496	45.387	39.888	1.00	17.70	G	O
30	ATOM	8857	N	THR	G	584	4.565	45.057	42.107	1.00	15.50	G	N
	ATOM	8858	CA	THR	G	584	3.990	43.714	42.028	1.00	14.44	G	C
	ATOM	8859	CB	THR	G	584	4.006	43.035	43.427	1.00	15.83	G	C
	ATOM	8860	OG1	THR	G	584	5.355	42.947	43.891	1.00	14.98	G	O
	ATOM	8861	CG2	THR	G	584	3.422	41.638	43.364	1.00	15.57	G	C
35	ATOM	8862	C	THR	G	584	2.560	43.724	41.495	1.00	13.97	G	C
	ATOM	8863	O	THR	G	584	2.140	42.804	40.795	1.00	14.04	G	O
	ATOM	8864	N	ALA	G	585	1.808	44.761	41.843	1.00	14.35	G	N
	ATOM	8865	CA	ALA	G	585	0.428	44.887	41.388	1.00	14.30	G	C
	ATOM	8866	CB	ALA	G	585	-0.290	46.001	42.158	1.00	13.86	G	C
40	ATOM	8867	C	ALA	G	585	0.438	45.201	39.895	1.00	13.72	G	C
	ATOM	8868	O	ALA	G	585	-0.457	44.778	39.171	1.00	13.02	G	O
	ATOM	8869	N	PHE	G	586	1.443	45.955	39.449	1.00	14.96	G	N
	ATOM	8870	CA	PHE	G	586	1.573	46.287	38.034	1.00	14.00	G	C
	ATOM	8871	CB	PHE	G	586	2.831	47.134	37.784	1.00	13.40	G	C
45	ATOM	8872	CG	PHE	G	586	3.049	47.489	36.321	1.00	14.84	G	C
	ATOM	8873	CD1	PHE	G	586	2.301	48.498	35.716	1.00	10.97	G	C
	ATOM	8874	CD2	PHE	G	586	3.995	46.795	35.549	1.00	15.02	G	C
	ATOM	8875	CE1	PHE	G	586	2.489	48.804	34.375	1.00	15.43	G	C
	ATOM	8876	CE2	PHE	G	586	4.192	47.095	34.198	1.00	10.43	G	C
50	ATOM	8877	CZ	PHE	G	586	3.442	48.095	33.612	1.00	14.05	G	C
	ATOM	8878	C	PHE	G	586	1.660	44.974	37.251	1.00	14.69	G	C
	ATOM	8879	O	PHE	G	586	1.083	44.851	36.173	1.00	18.16	G	O
	ATOM	8880	N	MET	G	587	2.366	43.993	37.804	1.00	12.34	G	N
	ATOM	8881	CA	MET	G	587	2.513	42.683	37.155	1.00	16.12	G	C
55	ATOM	8882	CB	MET	G	587	3.734	41.937	37.710	1.00	14.10	G	C
	ATOM	8883	CG	MET	G	587	5.073	42.583	37.504	1.00	19.03	G	C
	ATOM	8884	SD	MET	G	587	6.363	41.562	38.259	1.00	20.23	G	S
	ATOM	8885	CE	MET	G	587	6.386	40.111	37.175	1.00	17.84	G	C
	ATOM	8886	C	MET	G	587	1.340	41.696	37.314	1.00	17.38	G	C
	ATOM	8887	O	MET	G	587	1.093	40.875	36.428	1.00	20.76	G	O
60	ATOM	8888	N	THR	G	588	0.626	41.779	38.440	1.00	16.69	G	N
	ATOM	8889	CA	THR	G	588	-0.408	40.797	38.780	1.00	14.42	G	C
	ATOM	8890	CB	THR	G	588	0.013	40.057	40.112	1.00	16.44	G	C
	ATOM	8891	OG1	THR	G	588	0.123	41.018	41.176	1.00	15.92	G	O
65	ATOM	8892	CG2	THR	G	588	1.380	39.374	39.970	1.00	11.16	G	C
	ATOM	8893	C	THR	G	588	-1.879	41.193	38.949	1.00	13.72	G	C
	ATOM	8894	O	THR	G	588	-2.775	40.327	38.869	1.00	10.35	G	O
	ATOM	8895	N	ALA	G	589	-2.142	42.474	39.186	1.00	12.22	G	N
	ATOM	8896	CA	ALA	G	589	-3.514	42.903	39.432	1.00	12.44	G	C

	ATOM	8897	CB	ALA	G	589	-3.537	43.782	40.692	1.00	7.33	G	C
	ATOM	8898	C	ALA	G	589	-4.271	43.613	38.304	1.00	13.06	G	C
	ATOM	8899	O	ALA	G	589	-3.729	44.495	37.638	1.00	15.32	G	O
	ATOM	8900	N	ASP	G	590	-5.534	43.232	38.113	1.00	13.37	G	N
5	ATOM	8901	CA	ASP	G	590	-6.386	43.876	37.119	1.00	15.35	G	C
	ATOM	8902	CB	ASP	G	590	-7.763	43.212	37.090	1.00	11.53	G	C
	ATOM	8903	CG	ASP	G	590	-8.711	43.875	36.085	1.00	16.83	G	C
	ATOM	8904	OD1	ASP	G	590	-9.306	44.926	36.427	1.00	16.10	G	O
	ATOM	8905	OD2	ASP	G	590	-8.866	43.352	34.955	1.00	12.53	G	O
10	ATOM	8906	C	ASP	G	590	-6.515	45.362	37.521	1.00	16.96	G	C
	ATOM	8907	O	ASP	G	590	-6.386	46.270	36.691	1.00	15.63	G	O
	ATOM	8908	N	ASN	G	591	-6.776	45.598	38.807	1.00	18.44	G	N
	ATOM	8909	CA	ASN	G	591	-6.879	46.960	39.358	1.00	17.77	G	C
	ATOM	8910	CB	ASN	G	591	-8.257	47.604	39.044	1.00	12.39	G	C
15	ATOM	8911	CG	ASN	G	591	-9.421	46.870	39.665	1.00	15.31	G	C
	ATOM	8912	OD1	ASN	G	591	-10.119	46.092	38.994	1.00	15.94	G	O
	ATOM	8913	ND2	ASN	G	591	-9.659	47.125	40.943	1.00	9.39	G	N
	ATOM	8914	C	ASN	G	591	-6.588	46.892	40.870	1.00	15.61	G	C
	ATOM	8915	O	ASN	G	591	-6.463	45.802	41.422	1.00	15.16	G	O
20	ATOM	8916	N	ILE	G	592	-6.457	48.041	41.528	1.00	15.14	G	N
	ATOM	8917	CA	ILE	G	592	-6.143	48.058	42.959	1.00	12.44	G	C
	ATOM	8918	CB	ILE	G	592	-4.660	48.489	43.208	1.00	11.27	G	C
	ATOM	8919	CG2	ILE	G	592	-3.691	47.535	42.517	1.00	11.11	G	C
	ATOM	8920	CG1	ILE	G	592	-4.443	49.916	42.683	1.00	10.36	G	C
25	ATOM	8921	CD1	ILE	G	592	-3.160	50.588	43.180	1.00	4.07	G	C
	ATOM	8922	C	ILE	G	592	-7.010	49.019	43.758	1.00	12.67	G	C
	ATOM	8923	O	ILE	G	592	-7.836	49.759	43.208	1.00	12.91	G	O
	ATOM	8924	N	SER	G	593	-6.812	48.996	45.073	1.00	12.00	G	N
	ATOM	8925	CA	SER	G	593	-7.509	49.911	45.958	1.00	10.74	G	C
30	ATOM	8926	CB	SER	G	593	-8.371	49.140	46.948	1.00	11.31	G	C
	ATOM	8927	OG	SER	G	593	-9.409	48.453	46.261	1.00	13.41	G	O
	ATOM	8928	C	SER	G	593	-6.417	50.702	46.673	1.00	11.01	G	C
	ATOM	8929	O	SER	G	593	-5.372	50.131	47.025	1.00	9.67	G	O
	ATOM	8930	N	HIS	G	594	-6.668	52.009	46.839	1.00	9.94	G	N
35	ATOM	8931	CA	HIS	G	594	-5.788	53.004	47.491	1.00	10.11	G	C
	ATOM	8932	CB	HIS	G	594	-5.057	52.424	48.713	1.00	8.01	G	C
	ATOM	8933	CG	HIS	G	594	-5.968	52.124	49.870	1.00	10.10	G	C
	ATOM	8934	CD2	HIS	G	594	-6.308	50.949	50.461	1.00	7.24	G	C
	ATOM	8935	ND1	HIS	G	594	-6.731	53.093	50.491	1.00	10.10	G	N
40	ATOM	8936	CE1	HIS	G	594	-7.504	52.532	51.406	1.00	7.09	G	C
	ATOM	8937	NE2	HIS	G	594	-7.267	51.232	51.407	1.00	7.66	G	N
	ATOM	8938	C	HIS	G	594	-4.779	53.602	46.523	1.00	12.27	G	C
	ATOM	8939	O	HIS	G	594	-5.038	54.652	45.959	1.00	13.76	G	O
	ATOM	8940	N	GLY	G	595	-3.630	52.952	46.344	1.00	13.04	G	N
45	ATOM	8941	CA	GLY	G	595	-2.623	53.459	45.417	1.00	12.76	G	C
	ATOM	8942	C	GLY	G	595	-1.931	54.774	45.772	1.00	16.88	G	C
	ATOM	8943	O	GLY	G	595	-1.254	55.374	44.934	1.00	17.26	G	O
	ATOM	8944	N	LEU	G	596	-2.062	55.225	47.013	1.00	17.40	G	N
	ATOM	8945	CA	LEU	G	596	-1.451	56.488	47.427	1.00	14.76	G	C
50	ATOM	8946	CB	LEU	G	596	-1.756	56.750	48.906	1.00	16.20	G	C
	ATOM	8947	CG	LEU	G	596	-3.242	56.664	49.266	1.00	15.59	G	C
	ATOM	8948	CD1	LEU	G	596	-3.425	56.587	50.764	1.00	14.76	G	C
	ATOM	8949	CD2	LEU	G	596	-3.948	57.884	48.699	1.00	16.47	G	C
	ATOM	8950	C	LEU	G	596	0.055	56.592	47.195	1.00	13.79	G	C
55	ATOM	8951	O	LEU	G	596	0.537	57.645	46.788	1.00	12.91	G	O
	ATOM	8952	N	ASN	G	597	0.798	55.514	47.432	1.00	13.52	G	N
	ATOM	8953	CA	ASN	G	597	2.249	55.559	47.261	1.00	14.05	G	C
	ATOM	8954	CB	ASN	G	597	2.892	54.303	47.880	1.00	14.28	G	C
	ATOM	8955	CG	ASN	G	597	3.062	54.425	49.392	1.00	18.67	G	C
60	ATOM	8956	OD1	ASN	G	597	2.946	55.519	49.951	1.00	19.32	G	O
	ATOM	8957	ND2	ASN	G	597	3.332	53.303	50.061	1.00	19.96	G	N
	ATOM	8958	C	ASN	G	597	2.715	55.772	45.808	1.00	14.96	G	C
	ATOM	8959	O	ASN	G	597	3.917	55.903	45.548	1.00	12.58	G	O
	ATOM	8960	N	LEU	G	598	1.783	55.822	44.860	1.00	12.09	G	N
65	ATOM	8961	CA	LEU	G	598	2.188	56.089	43.481	1.00	15.77	G	C
	ATOM	8962	CB	LEU	G	598	0.981	56.010	42.529	1.00	14.48	G	C
	ATOM	8963	CG	LEU	G	598	0.541	54.578	42.200	1.00	15.48	G	C
	ATOM	8964	CD1	LEU	G	598	-0.758	54.582	41.397	1.00	12.90	G	C

	ATOM	8965	CD2	LEU	G	598	1.668	53.883	41.431	1.00	12.68	G	C
	ATOM	8966	C	LEU	G	598	2.804	57.496	43.436	1.00	15.28	G	C
	ATOM	8967	O	LEU	G	598	3.620	57.819	42.566	1.00	14.80	G	O
5	ATOM	8968	N	LYS	G	599	2.402	58.321	44.392	1.00	13.56	G	N
	ATOM	8969	CA	LYS	G	599	2.885	59.687	44.513	1.00	16.62	G	C
	ATOM	8970	CB	LYS	G	599	2.236	60.357	45.720	1.00	20.34	G	C
	ATOM	8971	CG	LYS	G	599	1.002	61.132	45.376	1.00	30.22	G	C
	ATOM	8972	CD	LYS	G	599	1.305	62.629	45.237	1.00	38.49	G	C
10	ATOM	8973	CE	LYS	G	599	0.720	63.212	43.946	1.00	38.26	G	C
	ATOM	8974	NZ	LYS	G	599	1.769	63.348	42.876	1.00	43.94	G	N
	ATOM	8975	C	LYS	G	599	4.391	59.739	44.698	1.00	17.19	G	C
	ATOM	8976	O	LYS	G	599	5.025	60.734	44.376	1.00	16.88	G	O
	ATOM	8977	N	LYS	G	600	4.954	58.663	45.233	1.00	18.32	G	N
15	ATOM	8978	CA	LYS	G	600	6.384	58.591	45.492	1.00	20.09	G	C
	ATOM	8979	CB	LYS	G	600	6.645	57.789	46.764	1.00	21.22	G	C
	ATOM	8980	CG	LYS	G	600	6.045	58.369	48.035	1.00	24.84	G	C
	ATOM	8981	CD	LYS	G	600	6.266	57.387	49.180	1.00	28.11	G	C
	ATOM	8982	CE	LYS	G	600	5.514	57.788	50.440	1.00	33.63	G	C
20	ATOM	8983	NZ	LYS	G	600	5.750	56.797	51.541	1.00	36.32	G	N
	ATOM	8984	C	LYS	G	600	7.196	57.958	44.372	1.00	20.76	G	C
	ATOM	8985	O	LYS	G	600	8.417	57.882	44.468	1.00	21.62	G	O
	ATOM	8986	N	SER	G	601	6.536	57.483	43.324	1.00	17.43	G	N
	ATOM	8987	CA	SER	G	601	7.273	56.842	42.235	1.00	17.95	G	C
25	ATOM	8988	CB	SER	G	601	7.067	55.333	42.270	1.00	13.72	G	C
	ATOM	8989	OG	SER	G	601	7.843	54.724	41.264	1.00	18.72	G	O
	ATOM	8990	C	SER	G	601	6.827	57.363	40.881	1.00	16.19	G	C
	ATOM	8991	O	SER	G	601	5.778	56.964	40.376	1.00	15.70	G	O
	ATOM	8992	N	PRO	G	602	7.635	58.238	40.262	1.00	16.50	G	N
30	ATOM	8993	CD	PRO	G	602	8.956	58.695	40.722	1.00	15.05	G	C
	ATOM	8994	CA	PRO	G	602	7.284	58.799	38.950	1.00	16.28	G	C
	ATOM	8995	CB	PRO	G	602	8.448	59.746	38.631	1.00	13.81	G	C
	ATOM	8996	CG	PRO	G	602	9.587	59.225	39.457	1.00	17.96	G	C
	ATOM	8997	C	PRO	G	602	7.131	57.694	37.905	1.00	14.68	G	C
35	ATOM	8998	O	PRO	G	602	6.191	57.711	37.110	1.00	16.42	G	O
	ATOM	8999	N	VAL	G	603	8.050	56.733	37.923	1.00	14.38	G	N
	ATOM	9000	CA	VAL	G	603	8.010	55.629	36.975	1.00	14.69	G	C
	ATOM	9001	CB	VAL	G	603	9.299	54.739	37.099	1.00	15.01	G	C
	ATOM	9002	CG1	VAL	G	603	9.319	53.656	35.991	1.00	13.98	G	C
40	ATOM	9003	CG2	VAL	G	603	10.552	55.608	36.976	1.00	10.61	G	C
	ATOM	9004	C	VAL	G	603	6.736	54.781	37.144	1.00	15.62	G	C
	ATOM	9005	O	VAL	G	603	6.002	54.557	36.168	1.00	15.05	G	O
	ATOM	9006	N	LEU	G	604	6.453	54.329	38.369	1.00	13.96	G	N
	ATOM	9007	CA	LEU	G	604	5.264	53.513	38.604	1.00	13.26	G	C
45	ATOM	9008	CB	LEU	G	604	5.277	52.944	40.025	1.00	13.07	G	C
	ATOM	9009	CG	LEU	G	604	6.043	51.631	40.231	1.00	12.71	G	C
	ATOM	9010	CD1	LEU	G	604	6.221	51.352	41.728	1.00	13.62	G	C
	ATOM	9011	CD2	LEU	G	604	5.290	50.492	39.576	1.00	10.47	G	C
	ATOM	9012	C	LEU	G	604	3.974	54.303	38.370	1.00	13.35	G	C
50	ATOM	9013	O	LEU	G	604	3.006	53.784	37.808	1.00	15.37	G	O
	ATOM	9014	N	GLN	G	605	3.958	55.560	38.794	1.00	12.02	G	N
	ATOM	9015	CA	GLN	G	605	2.789	56.394	38.596	1.00	11.83	G	C
	ATOM	9016	CB	GLN	G	605	2.988	57.759	39.258	1.00	11.08	G	C
	ATOM	9017	CG	GLN	G	605	1.780	58.686	39.109	1.00	8.69	G	C
55	ATOM	9018	CD	GLN	G	605	2.018	60.049	39.723	1.00	13.32	G	C
	ATOM	9019	OE1	GLN	G	605	2.809	60.191	40.663	1.00	17.15	G	O
	ATOM	9020	NE2	GLN	G	605	1.341	61.055	39.205	1.00	7.86	G	N
	ATOM	9021	C	GLN	G	605	2.518	56.593	37.102	1.00	11.27	G	C
	ATOM	9022	O	GLN	G	605	1.368	56.588	36.677	1.00	11.43	G	O
60	ATOM	9023	N	TYR	G	606	3.581	56.792	36.318	1.00	12.11	G	N
	ATOM	9024	CA	TYR	G	606	3.447	56.976	34.869	1.00	12.96	G	C
	ATOM	9025	CB	TYR	G	606	4.771	57.462	34.262	1.00	10.20	G	C
	ATOM	9026	CG	TYR	G	606	4.638	57.979	32.854	1.00	12.80	G	C
	ATOM	9027	CD1	TYR	G	606	3.748	59.014	32.544	1.00	13.75	G	C
	ATOM	9028	CE1	TYR	G	606	3.633	59.508	31.228	1.00	13.51	G	C
65	ATOM	9029	CD2	TYR	G	606	5.411	57.443	31.822	1.00	14.89	G	C
	ATOM	9030	CE2	TYR	G	606	5.309	57.925	30.505	1.00	14.56	G	C
	ATOM	9031	CZ	TYR	G	606	4.425	58.954	30.213	1.00	14.40	G	C
	ATOM	9032	OH	TYR	G	606	4.359	59.438	28.920	1.00	14.32	G	O

	ATOM	9033	C	TYR	G	606	3.006	55.668	34.209	1.00	11.13	G	C
	ATOM	9034	O	TYR	G	606	2.179	55.676	33.309	1.00	12.88	G	O
	ATOM	9035	N	LEU	G	607	3.546	54.547	34.685	1.00	11.84	G	N
	ATOM	9036	CA	LEU	G	607	3.195	53.239	34.146	1.00	11.11	G	C
5	ATOM	9037	CB	LEU	G	607	4.086	52.148	34.751	1.00	10.33	G	C
	ATOM	9038	CG	LEU	G	607	5.489	52.027	34.142	1.00	12.35	G	C
	ATOM	9039	CD1	LEU	G	607	6.317	50.997	34.889	1.00	8.14	G	C
	ATOM	9040	CD2	LEU	G	607	5.360	51.616	32.696	1.00	12.42	G	C
10	ATOM	9041	C	LEU	G	607	1.740	52.928	34.418	1.00	9.45	G	C
	ATOM	9042	O	LEU	G	607	1.083	52.285	33.602	1.00	11.43	G	O
	ATOM	9043	N	PHE	G	608	1.224	53.378	35.559	1.00	9.03	G	N
	ATOM	9044	CA	PHE	G	608	-0.184	53.123	35.883	1.00	8.32	G	C
	ATOM	9045	CB	PHE	G	608	-0.476	53.439	37.361	1.00	8.35	G	C
	ATOM	9046	CG	PHE	G	608	-0.312	52.254	38.284	1.00	10.44	G	C
15	ATOM	9047	CD1	PHE	G	608	0.925	51.624	38.423	1.00	8.62	G	C
	ATOM	9048	CD2	PHE	G	608	-1.398	51.751	38.993	1.00	7.34	G	C
	ATOM	9049	CE1	PHE	G	608	1.068	50.514	39.246	1.00	7.29	G	C
	ATOM	9050	CE2	PHE	G	608	-1.258	50.635	39.820	1.00	5.81	G	C
20	ATOM	9051	CZ	PHE	G	608	-0.028	50.019	39.945	1.00	7.47	G	C
	ATOM	9052	C	PHE	G	608	-1.075	53.985	34.975	1.00	8.74	G	C
	ATOM	9053	O	PHE	G	608	-2.203	53.614	34.669	1.00	9.48	G	O
	ATOM	9054	N	PHE	G	609	-0.576	55.154	34.579	1.00	9.43	G	N
	ATOM	9055	CA	PHE	G	609	-1.316	56.027	33.665	1.00	10.38	G	C
25	ATOM	9056	CB	PHE	G	609	-0.653	57.409	33.583	1.00	12.43	G	C
	ATOM	9057	CG	PHE	G	609	-1.138	58.234	32.415	1.00	12.29	G	C
	ATOM	9058	CD1	PHE	G	609	-0.416	58.283	31.220	1.00	10.08	G	C
	ATOM	9059	CD2	PHE	G	609	-2.370	58.880	32.475	1.00	9.31	G	C
	ATOM	9060	CE1	PHE	G	609	-0.927	58.955	30.104	1.00	7.13	G	C
30	ATOM	9061	CE2	PHE	G	609	-2.882	59.551	31.363	1.00	5.91	G	C
	ATOM	9062	CZ	PHE	G	609	-2.161	59.585	30.180	1.00	6.63	G	C
	ATOM	9063	C	PHE	G	609	-1.285	55.390	32.256	1.00	10.79	G	C
	ATOM	9064	O	PHE	G	609	-2.306	55.278	31.577	1.00	10.86	G	O
	ATOM	9065	N	LEU	G	610	-0.098	54.983	31.823	1.00	9.63	G	N
35	ATOM	9066	CA	LEU	G	610	0.059	54.371	30.505	1.00	12.82	G	C
	ATOM	9067	CB	LEU	G	610	1.538	54.021	30.247	1.00	9.10	G	C
	ATOM	9068	CG	LEU	G	610	2.471	55.215	30.040	1.00	10.11	G	C
	ATOM	9069	CD1	LEU	G	610	3.886	54.689	29.836	1.00	8.63	G	C
	ATOM	9070	CD2	LEU	G	610	1.998	56.068	28.842	1.00	7.05	G	C
40	ATOM	9071	C	LEU	G	610	-0.813	53.125	30.311	1.00	11.78	G	C
	ATOM	9072	O	LEU	G	610	-1.435	52.954	29.262	1.00	13.98	G	O
	ATOM	9073	N	ALA	G	611	-0.847	52.253	31.312	1.00	10.39	G	N
	ATOM	9074	CA	ALA	G	611	-1.653	51.040	31.245	1.00	9.08	G	C
	ATOM	9075	CB	ALA	G	611	-1.001	49.939	32.074	1.00	10.16	G	C
45	ATOM	9076	C	ALA	G	611	-3.084	51.277	31.721	1.00	10.52	G	C
	ATOM	9077	O	ALA	G	611	-3.901	50.368	31.718	1.00	13.84	G	O
	ATOM	9078	N	GLN	G	612	-3.391	52.507	32.113	1.00	11.33	G	N
	ATOM	9079	CA	GLN	G	612	-4.721	52.865	32.602	1.00	11.26	G	C
	ATOM	9080	CB	GLN	G	612	-5.696	53.002	31.428	1.00	11.19	G	C
50	ATOM	9081	CG	GLN	G	612	-5.550	54.313	30.665	1.00	10.16	G	C
	ATOM	9082	CD	GLN	G	612	-5.912	55.525	31.495	1.00	14.99	G	C
	ATOM	9083	OE1	GLN	G	612	-7.082	55.786	31.733	1.00	17.25	G	O
	ATOM	9084	NE2	GLN	G	612	-4.903	56.277	31.939	1.00	15.62	G	N
	ATOM	9085	C	GLN	G	612	-5.267	51.870	33.636	1.00	11.69	G	C
55	ATOM	9086	O	GLN	G	612	-6.415	51.425	33.563	1.00	10.71	G	O
	ATOM	9087	N	ILE	G	613	-4.431	51.537	34.613	1.00	12.37	G	N
	ATOM	9088	CA	ILE	G	613	-4.802	50.601	35.674	1.00	11.47	G	C
	ATOM	9089	CB	ILE	G	613	-3.544	50.187	36.483	1.00	9.80	G	C
	ATOM	9090	CG2	ILE	G	613	-3.930	49.196	37.596	1.00	10.10	G	C
60	ATOM	9091	CG1	ILE	G	613	-2.504	49.591	35.528	1.00	7.95	G	C
	ATOM	9092	CD1	ILE	G	613	-1.206	49.165	36.162	1.00	2.26	G	C
	ATOM	9093	C	ILE	G	613	-5.800	51.281	36.613	1.00	11.39	G	C
	ATOM	9094	O	ILE	G	613	-5.467	52.286	37.237	1.00	13.20	G	O
	ATOM	9095	N	PRO	G	614	-7.034	50.750	36.730	1.00	9.63	G	N
65	ATOM	9096	CD	PRO	G	614	-7.623	49.563	36.096	1.00	6.70	G	C
	ATOM	9097	CA	PRO	G	614	-7.985	51.412	37.632	1.00	10.78	G	C
	ATOM	9098	CB	PRO	G	614	-9.301	50.660	37.405	1.00	8.89	G	C
	ATOM	9099	CG	PRO	G	614	-9.087	49.876	36.133	1.00	8.96	G	C
	ATOM	9100	C	PRO	G	614	-7.552	51.393	39.107	1.00	11.37	G	C

	ATOM	9101	O	PRO	G	614	-6.962	50.421	39.601	1.00	9.02	G	O
	ATOM	9102	N	ILE	G	615	-7.850	52.491	39.793	1.00	11.64	G	N
	ATOM	9103	CA	ILE	G	615	-7.526	52.648	41.205	1.00	10.95	G	C
5	ATOM	9104	CB	ILE	G	615	-6.381	53.680	41.410	1.00	11.29	G	C
	ATOM	9105	CG2	ILE	G	615	-6.029	53.803	42.901	1.00	7.92	G	C
	ATOM	9106	CG1	ILE	G	615	-5.146	53.257	40.607	1.00	9.82	G	C
	ATOM	9107	CD1	ILE	G	615	-4.288	54.426	40.162	1.00	9.86	G	C
	ATOM	9108	C	ILE	G	615	-8.763	53.142	41.967	1.00	13.76	G	C
10	ATOM	9109	O	ILE	G	615	-9.290	54.231	41.669	1.00	9.79	G	O
	ATOM	9110	N	ALA	G	616	-9.236	52.329	42.924	1.00	10.84	G	N
	ATOM	9111	CA	ALA	G	616	-10.377	52.709	43.767	1.00	11.84	G	C
	ATOM	9112	CB	ALA	G	616	-11.125	51.460	44.269	1.00	8.53	G	C
	ATOM	9113	C	ALA	G	616	-9.757	53.462	44.957	1.00	10.99	G	C
15	ATOM	9114	O	ALA	G	616	-8.994	52.878	45.731	1.00	11.08	G	O
	ATOM	9115	N	MET	G	617	-10.062	54.748	45.093	1.00	10.07	G	N
	ATOM	9116	CA	MET	G	617	-9.505	55.543	46.195	1.00	10.60	G	C
	ATOM	9117	CB	MET	G	617	-8.888	56.838	45.651	1.00	8.14	G	C
	ATOM	9118	CG	MET	G	617	-7.900	56.609	44.508	1.00	11.22	G	C
20	ATOM	9119	SD	MET	G	617	-6.680	57.936	44.327	1.00	16.19	G	S
	ATOM	9120	CE	MET	G	617	-7.466	58.894	43.256	1.00	19.21	G	C
	ATOM	9121	C	MET	G	617	-10.583	55.865	47.234	1.00	11.58	G	C
	ATOM	9122	O	MET	G	617	-11.776	55.941	46.894	1.00	12.36	G	O
	ATOM	9123	N	SER	G	618	-10.156	56.060	48.486	1.00	12.33	G	N
25	ATOM	9124	CA	SER	G	618	-11.054	56.346	49.622	1.00	11.74	G	C
	ATOM	9125	CB	SER	G	618	-11.159	55.103	50.521	1.00	13.60	G	C
	ATOM	9126	OG	SER	G	618	-11.476	53.951	49.771	1.00	15.42	G	O
	ATOM	9127	C	SER	G	618	-10.523	57.503	50.470	1.00	12.77	G	C
	ATOM	9128	O	SER	G	618	-9.953	57.280	51.542	1.00	14.62	G	O
30	ATOM	9129	N	PRO	G	619	-10.683	58.751	50.003	1.00	12.61	G	N
	ATOM	9130	CD	PRO	G	619	-11.289	59.149	48.716	1.00	11.13	G	C
	ATOM	9131	CA	PRO	G	619	-10.193	59.912	50.763	1.00	10.94	G	C
	ATOM	9132	CB	PRO	G	619	-10.577	61.106	49.882	1.00	11.79	G	C
	ATOM	9133	CG	PRO	G	619	-10.687	60.507	48.477	1.00	11.41	G	C
35	ATOM	9134	C	PRO	G	619	-10.674	60.077	52.213	1.00	12.21	G	C
	ATOM	9135	O	PRO	G	619	-9.905	60.529	53.057	1.00	12.88	G	O
	ATOM	9136	N	LEU	G	620	-11.926	59.742	52.511	1.00	8.78	G	N
	ATOM	9137	CA	LEU	G	620	-12.408	59.865	53.891	1.00	13.07	G	C
	ATOM	9138	CB	LEU	G	620	-13.927	59.674	53.957	1.00	10.21	G	C
40	ATOM	9139	CG	LEU	G	620	-14.738	60.925	53.566	1.00	15.61	G	C
	ATOM	9140	CD1	LEU	G	620	-16.230	60.616	53.606	1.00	11.46	G	C
	ATOM	9141	CD2	LEU	G	620	-14.404	62.087	54.524	1.00	15.81	G	C
	ATOM	9142	C	LEU	G	620	-11.701	58.841	54.805	1.00	13.87	G	C
	ATOM	9143	O	LEU	G	620	-11.261	59.172	55.900	1.00	12.24	G	O
45	ATOM	9144	N	SER	G	621	-11.591	57.600	54.347	1.00	14.08	G	N
	ATOM	9145	CA	SER	G	621	-10.904	56.572	55.110	1.00	15.10	G	C
	ATOM	9146	CB	SER	G	621	-11.035	55.228	54.394	1.00	15.67	G	C
	ATOM	9147	OG	SER	G	621	-10.017	54.338	54.790	1.00	16.88	G	O
	ATOM	9148	C	SER	G	621	-9.427	56.963	55.270	1.00	16.81	G	C
	ATOM	9149	O	SER	G	621	-8.890	56.905	56.374	1.00	16.21	G	O
50	ATOM	9150	N	ASN	G	622	-8.781	57.376	54.174	1.00	15.98	G	N
	ATOM	9151	CA	ASN	G	622	-7.375	57.783	54.215	1.00	15.99	G	C
	ATOM	9152	CB	ASN	G	622	-6.896	58.271	52.846	1.00	15.85	G	C
	ATOM	9153	CG	ASN	G	622	-6.891	57.186	51.783	1.00	15.83	G	C
55	ATOM	9154	OD1	ASN	G	622	-6.891	57.492	50.603	1.00	16.42	G	O
	ATOM	9155	ND2	ASN	G	622	-6.884	55.930	52.192	1.00	17.09	G	N
	ATOM	9156	C	ASN	G	622	-7.205	58.943	55.199	1.00	16.44	G	C
	ATOM	9157	O	ASN	G	622	-6.219	59.028	55.918	1.00	16.23	G	O
	ATOM	9158	N	ASN	G	623	-8.168	59.852	55.200	1.00	16.93	G	N
60	ATOM	9159	CA	ASN	G	623	-8.115	61.009	56.079	1.00	22.64	G	C
	ATOM	9160	CB	ASN	G	623	-9.320	61.919	55.815	1.00	20.37	G	C
	ATOM	9161	CG	ASN	G	623	-9.443	63.076	56.814	1.00	19.83	G	C
	ATOM	9162	OD1	ASN	G	623	-10.439	63.173	57.531	1.00	21.60	G	O
	ATOM	9163	ND2	ASN	G	623	-8.453	63.959	56.848	1.00	12.02	G	N
	ATOM	9164	C	ASN	G	623	-8.087	60.539	57.522	1.00	28.88	G	C
65	ATOM	9165	O	ASN	G	623	-7.389	61.119	58.347	1.00	32.39	G	O
	ATOM	9166	N	SER	G	624	-8.811	59.462	57.814	1.00	33.35	G	N
	ATOM	9167	CA	SER	G	624	-8.861	58.926	59.165	1.00	39.13	G	C
	ATOM	9168	CB	SER	G	624	-9.843	57.774	59.239	1.00	40.99	G	C

	ATOM	9169	OG	SER	G	624	-10.981	58.166	59.986	1.00	44.19	G	O
	ATOM	9170	C	SER	G	624	-7.529	58.491	59.776	1.00	42.68	G	C
	ATOM	9171	O	SER	G	624	-7.460	58.251	60.979	1.00	46.21	G	O
	ATOM	9172	N	LEU	G	625	-6.480	58.377	58.969	1.00	45.34	G	N
5	ATOM	9173	CA	LEU	G	625	-5.169	58.028	59.510	1.00	47.09	G	C
	ATOM	9174	CB	LEU	G	625	-5.020	56.513	59.671	1.00	49.82	G	C
	ATOM	9175	CG	LEU	G	625	-4.405	56.022	61.000	1.00	54.89	G	C
	ATOM	9176	CD1	LEU	G	625	-3.360	54.941	60.716	1.00	54.52	G	C
	ATOM	9177	CD2	LEU	G	625	-3.779	57.190	61.779	1.00	54.40	G	C
10	ATOM	9178	C	LEU	G	625	-4.035	58.559	58.641	1.00	47.79	G	C
	ATOM	9179	O	LEU	G	625	-3.613	59.715	58.757	1.00	47.29	G	O
	ATOM	9180	N	PHE	G	626	-3.559	57.693	57.762	1.00	47.32	G	N
	ATOM	9181	CA	PHE	G	626	-2.471	57.991	56.854	1.00	45.42	G	C
	ATOM	9182	CB	PHE	G	626	-2.529	56.991	55.690	1.00	43.74	G	C
15	ATOM	9183	CG	PHE	G	626	-2.415	55.546	56.135	1.00	47.39	G	C
	ATOM	9184	CD1	PHE	G	626	-1.213	55.050	56.682	1.00	45.44	G	C
	ATOM	9185	CD2	PHE	G	626	-3.507	54.685	56.048	1.00	48.03	G	C
	ATOM	9186	CE1	PHE	G	626	-1.099	53.708	57.142	1.00	44.18	G	C
	ATOM	9187	CE2	PHE	G	626	-3.408	53.334	56.507	1.00	47.96	G	C
20	ATOM	9188	CZ	PHE	G	626	-2.199	52.850	57.055	1.00	44.73	G	C
	ATOM	9189	C	PHE	G	626	-2.351	59.427	56.325	1.00	44.76	G	C
	ATOM	9190	O	PHE	G	626	-1.292	60.040	56.446	1.00	46.46	G	O
	ATOM	9191	N	LEU	G	627	-3.427	59.988	55.782	1.00	43.54	G	N
	ATOM	9192	CA	LEU	G	627	-3.345	61.326	55.177	1.00	39.06	G	C
25	ATOM	9193	CB	LEU	G	627	-3.246	61.172	53.658	1.00	33.98	G	C
	ATOM	9194	CG	LEU	G	627	-2.041	61.739	52.929	1.00	32.99	G	C
	ATOM	9195	CD1	LEU	G	627	-2.325	61.639	51.444	1.00	31.08	G	C
	ATOM	9196	CD2	LEU	G	627	-1.763	63.167	53.346	1.00	31.77	G	C
	ATOM	9197	C	LEU	G	627	-4.476	62.303	55.465	1.00	36.78	G	C
30	ATOM	9198	O	LEU	G	627	-5.641	61.929	55.479	1.00	36.97	G	O
	ATOM	9199	N	GLU	G	628	-4.115	63.567	55.653	1.00	35.83	G	N
	ATOM	9200	CA	GLU	G	628	-5.085	64.634	55.909	1.00	34.23	G	C
	ATOM	9201	CB	GLU	G	628	-4.338	65.881	56.374	1.00	35.69	G	C
	ATOM	9202	CG	GLU	G	628	-4.921	67.165	55.899	1.00	40.25	G	C
35	ATOM	9203	CD	GLU	G	628	-4.061	68.321	56.295	1.00	45.16	G	C
	ATOM	9204	OE1	GLU	G	628	-3.092	68.089	57.057	1.00	46.09	G	O
	ATOM	9205	OE2	GLU	G	628	-4.351	69.451	55.845	1.00	48.50	G	O
	ATOM	9206	C	GLU	G	628	-5.871	64.902	54.606	1.00	31.44	G	C
	ATOM	9207	O	GLU	G	628	-5.273	65.096	53.541	1.00	28.75	G	O
40	ATOM	9208	N	TYR	G	629	-7.201	64.940	54.702	1.00	26.45	G	N
	ATOM	9209	CA	TYR	G	629	-8.052	65.085	53.525	1.00	24.13	G	C
	ATOM	9210	CB	TYR	G	629	-9.461	65.551	53.898	1.00	21.67	G	C
	ATOM	9211	CG	TYR	G	629	-10.453	65.161	52.819	1.00	19.97	G	C
	ATOM	9212	CD1	TYR	G	629	-10.606	65.938	51.671	1.00	21.45	G	C
45	ATOM	9213	CE1	TYR	G	629	-11.436	65.526	50.625	1.00	18.93	G	C
	ATOM	9214	CD2	TYR	G	629	-11.164	63.965	52.895	1.00	20.27	G	C
	ATOM	9215	CE2	TYR	G	629	-11.995	63.548	51.855	1.00	14.62	G	C
	ATOM	9216	CZ	TYR	G	629	-12.117	64.331	50.728	1.00	15.96	G	C
	ATOM	9217	OH	TYR	G	629	-12.898	63.917	49.685	1.00	16.02	G	O
50	ATOM	9218	C	TYR	G	629	-7.569	65.915	52.350	1.00	23.55	G	C
	ATOM	9219	O	TYR	G	629	-7.413	65.396	51.259	1.00	24.31	G	O
	ATOM	9220	N	ALA	G	630	-7.352	67.200	52.563	1.00	23.92	G	N
	ATOM	9221	CA	ALA	G	630	-6.900	68.089	51.500	1.00	23.69	G	C
	ATOM	9222	CB	ALA	G	630	-6.799	69.519	52.049	1.00	24.43	G	C
55	ATOM	9223	C	ALA	G	630	-5.570	67.691	50.840	1.00	24.80	G	C
	ATOM	9224	O	ALA	G	630	-5.268	68.140	49.738	1.00	24.81	G	O
	ATOM	9225	N	LYS	G	631	-4.775	66.861	51.507	1.00	23.06	G	N
	ATOM	9226	CA	LYS	G	631	-3.483	66.446	50.969	1.00	19.51	G	C
	ATOM	9227	CB	LYS	G	631	-2.487	66.239	52.114	1.00	24.24	G	C
60	ATOM	9228	CG	LYS	G	631	-1.573	67.422	52.384	1.00	30.47	G	C
	ATOM	9229	CD	LYS	G	631	-2.249	68.466	53.251	1.00	36.62	G	C
	ATOM	9230	CE	LYS	G	631	-1.378	69.728	53.384	1.00	42.31	G	C
	ATOM	9231	NZ	LYS	G	631	-2.046	70.807	54.187	1.00	45.24	G	N
	ATOM	9232	C	LYS	G	631	-3.557	65.157	50.161	1.00	19.13	G	C
65	ATOM	9233	O	LYS	G	631	-2.537	64.679	49.678	1.00	19.45	G	O
	ATOM	9234	N	ASN	G	632	-4.749	64.578	50.034	1.00	16.11	G	N
	ATOM	9235	CA	ASN	G	632	-4.915	63.326	49.287	1.00	16.42	G	C
	ATOM	9236	CB	ASN	G	632	-6.360	62.827	49.417	1.00	13.88	G	C

	ATOM	9237	CG	ASN	G	632	-6.491	61.341	49.135	1.00	18.16	G	C
	ATOM	9238	OD1	ASN	G	632	-6.657	60.529	50.057	1.00	17.25	G	O
	ATOM	9239	ND2	ASN	G	632	-6.408	60.971	47.855	1.00	14.48	G	N
5	ATOM	9240	C	ASN	G	632	-4.566	63.503	47.796	1.00	14.87	G	C
	ATOM	9241	O	ASN	G	632	-5.020	64.451	47.170	1.00	13.37	G	O
	ATOM	9242	N	PRO	G	633	-3.767	62.581	47.219	1.00	16.14	G	N
	ATOM	9243	CD	PRO	G	633	-3.185	61.393	47.875	1.00	15.34	G	C
	ATOM	9244	CA	PRO	G	633	-3.378	62.662	45.801	1.00	17.16	G	C
10	ATOM	9245	CB	PRO	G	633	-2.306	61.574	45.658	1.00	16.11	G	C
	ATOM	9246	CG	PRO	G	633	-2.676	60.571	46.708	1.00	14.60	G	C
	ATOM	9247	C	PRO	G	633	-4.550	62.441	44.824	1.00	17.13	G	C
	ATOM	9248	O	PRO	G	633	-4.376	62.530	43.615	1.00	16.68	G	O
	ATOM	9249	N	PHE	G	634	-5.740	62.160	45.353	1.00	15.87	G	N
15	ATOM	9250	CA	PHE	G	634	-6.919	61.924	44.522	1.00	13.92	G	C
	ATOM	9251	CB	PHE	G	634	-8.178	61.873	45.400	1.00	11.03	G	C
	ATOM	9252	CG	PHE	G	634	-9.466	61.903	44.619	1.00	13.14	G	C
	ATOM	9253	CD1	PHE	G	634	-10.181	63.080	44.475	1.00	13.25	G	C
	ATOM	9254	CD2	PHE	G	634	-9.953	60.753	44.000	1.00	14.43	G	C
20	ATOM	9255	CE1	PHE	G	634	-11.359	63.118	43.723	1.00	11.82	G	C
	ATOM	9256	CE2	PHE	G	634	-11.132	60.788	43.248	1.00	14.00	G	C
	ATOM	9257	CZ	PHE	G	634	-11.832	61.977	43.112	1.00	9.15	G	C
	ATOM	9258	C	PHE	G	634	-7.122	62.944	43.383	1.00	16.46	G	C
	ATOM	9259	O	PHE	G	634	-7.310	62.550	42.224	1.00	17.02	G	O
25	ATOM	9260	N	LEU	G	635	-7.098	64.240	43.690	1.00	14.16	G	N
	ATOM	9261	CA	LEU	G	635	-7.317	65.238	42.647	1.00	12.30	G	C
	ATOM	9262	CB	LEU	G	635	-7.467	66.633	43.246	1.00	12.01	G	C
	ATOM	9263	CG	LEU	G	635	-7.730	67.780	42.260	1.00	11.21	G	C
	ATOM	9264	CD1	LEU	G	635	-9.061	67.567	41.533	1.00	8.59	G	C
30	ATOM	9265	CD2	LEU	G	635	-7.734	69.097	43.002	1.00	9.35	G	C
	ATOM	9266	C	LEU	G	635	-6.186	65.253	41.627	1.00	13.61	G	C
	ATOM	9267	O	LEU	G	635	-6.423	65.348	40.420	1.00	15.09	G	O
	ATOM	9268	N	ASP	G	636	-4.957	65.175	42.112	1.00	10.60	G	N
	ATOM	9269	CA	ASP	G	636	-3.798	65.174	41.244	1.00	12.15	G	C
35	ATOM	9270	CB	ASP	G	636	-2.534	65.055	42.073	1.00	11.18	G	C
	ATOM	9271	CG	ASP	G	636	-1.308	65.288	41.261	1.00	13.29	G	C
	ATOM	9272	OD1	ASP	G	636	-1.279	66.287	40.519	1.00	18.09	G	O
	ATOM	9273	OD2	ASP	G	636	-0.374	64.476	41.360	1.00	17.40	G	O
	ATOM	9274	C	ASP	G	636	-3.853	64.027	40.230	1.00	13.04	G	C
40	ATOM	9275	O	ASP	G	636	-3.616	64.235	39.045	1.00	16.66	G	O
	ATOM	9276	N	PHE	G	637	-4.140	62.818	40.707	1.00	11.53	G	N
	ATOM	9277	CA	PHE	G	637	-4.240	61.641	39.861	1.00	10.15	G	C
	ATOM	9278	CB	PHE	G	637	-4.494	60.400	40.717	1.00	9.78	G	C
	ATOM	9279	CG	PHE	G	637	-3.303	59.967	41.548	1.00	13.34	G	C
45	ATOM	9280	CD1	PHE	G	637	-2.052	60.582	41.394	1.00	11.46	G	C
	ATOM	9281	CD2	PHE	G	637	-3.423	58.910	42.464	1.00	14.09	G	C
	ATOM	9282	CE1	PHE	G	637	-0.945	60.142	42.133	1.00	11.12	G	C
	ATOM	9283	CE2	PHE	G	637	-2.317	58.465	43.207	1.00	9.04	G	C
	ATOM	9284	CZ	PHE	G	637	-1.080	59.079	43.038	1.00	10.31	G	C
50	ATOM	9285	C	PHE	G	637	-5.375	61.803	38.849	1.00	11.08	G	C
	ATOM	9286	O	PHE	G	637	-5.233	61.457	37.679	1.00	10.36	G	O
	ATOM	9287	N	LEU	G	638	-6.500	62.338	39.303	1.00	8.75	G	N
	ATOM	9288	CA	LEU	G	638	-7.653	62.535	38.445	1.00	10.40	G	C
	ATOM	9289	CB	LEU	G	638	-8.828	63.055	39.264	1.00	11.65	G	C
55	ATOM	9290	CG	LEU	G	638	-10.125	63.230	38.479	1.00	14.78	G	C
	ATOM	9291	CD1	LEU	G	638	-10.708	61.855	38.178	1.00	19.88	G	C
	ATOM	9292	CD2	LEU	G	638	-11.113	64.057	39.267	1.00	13.31	G	C
	ATOM	9293	C	LEU	G	638	-7.382	63.508	37.302	1.00	13.54	G	C
	ATOM	9294	O	LEU	G	638	-7.753	63.260	36.148	1.00	14.08	G	O
60	ATOM	9295	N	GLN	G	639	-6.752	64.628	37.628	1.00	13.06	G	N
	ATOM	9296	CA	GLN	G	639	-6.437	65.639	36.635	1.00	13.02	G	C
	ATOM	9297	CB	GLN	G	639	-5.850	66.876	37.314	1.00	13.56	G	C
	ATOM	9298	CG	GLN	G	639	-6.842	67.637	38.184	1.00	14.34	G	C
	ATOM	9299	CD	GLN	G	639	-6.207	68.843	38.827	1.00	14.53	G	C
65	ATOM	9300	OE1	GLN	G	639	-5.036	68.813	39.184	1.00	18.23	G	O
	ATOM	9301	NE2	GLN	G	639	-6.965	69.910	38.966	1.00	15.45	G	N
	ATOM	9302	C	GLN	G	639	-5.439	65.117	35.620	1.00	14.28	G	C
	ATOM	9303	O	GLN	G	639	-5.565	65.389	34.426	1.00	13.31	G	O
	ATOM	9304	N	LYS	G	640	-4.446	64.375	36.105	1.00	11.23	G	N

	ATOM	9305	CA	LYS	G	640	-3.406	63.838	35.243	1.00	11.14	G	C
	ATOM	9306	CB	LYS	G	640	-2.271	63.247	36.081	1.00	9.50	G	C
	ATOM	9307	CG	LYS	G	640	-1.509	64.268	36.904	1.00	5.76	G	C
	ATOM	9308	CD	LYS	G	640	-0.439	63.566	37.706	1.00	7.19	G	C
5	ATOM	9309	CE	LYS	G	640	0.536	64.546	38.330	1.00	6.12	G	C
	ATOM	9310	NZ	LYS	G	640	1.376	63.816	39.315	1.00	9.01	G	N
	ATOM	9311	C	LYS	G	640	-3.937	62.783	34.276	1.00	10.42	G	C
	ATOM	9312	O	LYS	G	640	-3.298	62.494	33.270	1.00	10.15	G	O
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10	ATOM	9313	N	GLY	G	641	-5.091	62.202	34.596	1.00	10.82	G	N
	ATOM	9314	CA	GLY	G	641	-5.681	61.196	33.732	1.00	10.10	G	C
	ATOM	9315	C	GLY	G	641	-5.561	59.748	34.182	1.00	11.91	G	C
	ATOM	9316	O	GLY	G	641	-5.841	58.850	33.385	1.00	9.75	G	O
	ATOM	9317	N	LEU	G	642	-5.136	59.485	35.423	1.00	9.11	G	N
	ATOM	9318	CA	LEU	G	642	-5.060	58.085	35.862	1.00	9.30	G	C
15	ATOM	9319	CB	LEU	G	642	-4.325	57.912	37.201	1.00	9.33	G	C
	ATOM	9320	CG	LEU	G	642	-2.881	58.354	37.542	1.00	11.64	G	C
	ATOM	9321	CD1	LEU	G	642	-2.081	57.133	37.861	1.00	10.41	G	C
	ATOM	9322	CD2	LEU	G	642	-2.222	59.179	36.467	1.00	8.13	G	C
	ATOM	9323	C	LEU	G	642	-6.506	57.630	36.006	1.00	8.32	G	C
20	ATOM	9324	O	LEU	G	642	-7.403	58.444	36.234	1.00	7.29	G	O
	ATOM	9325	N	MET	G	643	-6.728	56.331	35.848	1.00	12.25	G	N
	ATOM	9326	CA	MET	G	643	-8.061	55.738	35.918	1.00	12.63	G	C
	ATOM	9327	CB	MET	G	643	-8.002	54.346	35.270	1.00	17.70	G	C
	ATOM	9328	CG	MET	G	643	-9.177	54.011	34.361	1.00	19.58	G	C
25	ATOM	9329	SD	MET	G	643	-10.598	53.548	35.327	1.00	29.32	G	S
	ATOM	9330	CE	MET	G	643	-11.483	52.455	34.126	1.00	17.37	G	C
	ATOM	9331	C	MET	G	643	-8.534	55.655	37.378	1.00	11.67	G	C
	ATOM	9332	O	MET	G	643	-8.335	54.644	38.049	1.00	10.89	G	O
	ATOM	9333	N	ILE	G	644	-9.193	56.712	37.843	1.00	10.13	G	N
30	ATOM	9334	CA	ILE	G	644	-9.628	56.812	39.241	1.00	13.64	G	C
	ATOM	9335	CB	ILE	G	644	-9.197	58.200	39.849	1.00	14.03	G	C
	ATOM	9336	CG2	ILE	G	644	-9.589	58.278	41.275	1.00	13.33	G	C
	ATOM	9337	CG1	ILE	G	644	-7.690	58.421	39.711	1.00	13.06	G	C
	ATOM	9338	CD1	ILE	G	644	-6.864	57.343	40.316	1.00	12.09	G	C
35	ATOM	9339	C	ILE	G	644	-11.122	56.677	39.535	1.00	12.31	G	C
	ATOM	9340	O	ILE	G	644	-11.949	57.187	38.788	1.00	12.25	G	O
	ATOM	9341	N	SER	G	645	-11.461	55.987	40.622	1.00	11.33	G	N
	ATOM	9342	CA	SER	G	645	-12.859	55.885	41.055	1.00	11.88	G	C
	ATOM	9343	CB	SER	G	645	-13.439	54.499	40.746	1.00	10.31	G	C
40	ATOM	9344	OG	SER	G	645	-12.917	53.504	41.600	1.00	12.12	G	O
	ATOM	9345	C	SER	G	645	-12.897	56.169	42.582	1.00	13.09	G	C
	ATOM	9346	O	SER	G	645	-11.901	55.980	43.279	1.00	11.16	G	O
	ATOM	9347	N	LEU	G	646	-14.027	56.657	43.089	1.00	14.44	G	N
	ATOM	9348	CA	LEU	G	646	-14.168	56.936	44.514	1.00	11.49	G	C
45	ATOM	9349	CB	LEU	G	646	-15.036	58.167	44.736	1.00	9.25	G	C
	ATOM	9350	CG	LEU	G	646	-14.301	59.505	44.640	1.00	9.94	G	C
	ATOM	9351	CD1	LEU	G	646	-15.306	60.632	44.723	1.00	5.20	G	C
	ATOM	9352	CD2	LEU	G	646	-13.266	59.624	45.761	1.00	5.42	G	C
	ATOM	9353	C	LEU	G	646	-14.818	55.739	45.184	1.00	14.01	G	C
50	ATOM	9354	O	LEU	G	646	-15.730	55.102	44.623	1.00	11.29	G	O
	ATOM	9355	N	SER	G	647	-14.326	55.414	46.374	1.00	13.24	G	N
	ATOM	9356	CA	SER	G	647	-14.863	54.303	47.130	1.00	11.62	G	C
	ATOM	9357	CB	SER	G	647	-13.998	53.058	46.947	1.00	10.91	G	C
	ATOM	9358	OG	SER	G	647	-12.682	53.295	47.396	1.00	13.82	G	O
55	ATOM	9359	C	SER	G	647	-14.978	54.679	48.607	1.00	13.93	G	C
	ATOM	9360	O	SER	G	647	-14.418	55.668	49.073	1.00	13.66	G	O
	ATOM	9361	N	THR	G	648	-15.688	53.836	49.331	1.00	10.73	G	N
	ATOM	9362	CA	THR	G	648	-16.010	54.015	50.731	1.00	11.49	G	C
	ATOM	9363	CB	THR	G	648	-17.491	53.559	50.850	1.00	12.19	G	C
60	ATOM	9364	OG1	THR	G	648	-18.292	54.635	51.318	1.00	25.38	G	O
	ATOM	9365	CG2	THR	G	648	-17.648	52.353	51.660	1.00	8.34	G	C
	ATOM	9366	C	THR	G	648	-15.082	53.341	51.767	1.00	11.68	G	C
	ATOM	9367	O	THR	G	648	-14.731	53.954	52.774	1.00	10.99	G	O
	ATOM	9368	N	ASP	G	649	-14.681	52.093	51.509	1.00	12.57	G	N
65	ATOM	9369	CA	ASP	G	649	-13.820	51.320	52.413	1.00	13.42	G	C
	ATOM	9370	CB	ASP	G	649	-12.635	52.176	52.912	1.00	11.06	G	C
	ATOM	9371	CG	ASP	G	649	-11.550	51.341	53.600	1.00	12.31	G	C
	ATOM	9372	OD1	ASP	G	649	-11.696	50.099	53.658	1.00	16.26	G	O

	ATOM	9373	OD2	ASP	G	649	-10.552	51.919	54.084	1.00	10.01	G	O
	ATOM	9374	C	ASP	G	649	-14.621	50.757	53.604	1.00	12.74	G	C
	ATOM	9375	O	ASP	G	649	-15.070	49.607	53.556	1.00	11.18	G	O
	ATOM	9376	N	ASP	G	650	-14.799	51.565	54.655	1.00	14.63	G	N
5	ATOM	9377	CA	ASP	G	650	-15.553	51.155	55.858	1.00	15.87	G	C
	ATOM	9378	CB	ASP	G	650	-14.622	50.901	57.053	1.00	16.77	G	C
	ATOM	9379	CG	ASP	G	650	-13.774	49.658	56.887	1.00	24.73	G	C
	ATOM	9380	OD1	ASP	G	650	-12.577	49.731	57.220	1.00	31.78	G	O
10	ATOM	9381	OD2	ASP	G	650	-14.283	48.603	56.432	1.00	28.94	G	O
	ATOM	9382	C	ASP	G	650	-16.563	52.221	56.285	1.00	16.83	G	C
	ATOM	9383	O	ASP	G	650	-16.265	53.048	57.151	1.00	19.00	G	O
	ATOM	9384	N	PRO	G	651	-17.766	52.223	55.685	1.00	15.93	G	N
	ATOM	9385	CD	PRO	G	651	-18.233	51.315	54.621	1.00	13.99	G	C
	ATOM	9386	CA	PRO	G	651	-18.786	53.212	56.043	1.00	14.14	G	C
15	ATOM	9387	CB	PRO	G	651	-20.017	52.775	55.252	1.00	13.61	G	C
	ATOM	9388	CG	PRO	G	651	-19.495	51.976	54.140	1.00	13.18	G	C
	ATOM	9389	C	PRO	G	651	-19.086	53.276	57.533	1.00	14.43	G	C
	ATOM	9390	O	PRO	G	651	-19.300	54.358	58.069	1.00	12.65	G	O
20	ATOM	9391	N	MET	G	652	-19.123	52.125	58.200	1.00	14.95	G	N
	ATOM	9392	CA	MET	G	652	-19.406	52.126	59.633	1.00	17.79	G	C
	ATOM	9393	CB	MET	G	652	-19.380	50.717	60.203	1.00	17.10	G	C
	ATOM	9394	CG	MET	G	652	-20.114	50.644	61.536	1.00	25.09	G	C
	ATOM	9395	SD	MET	G	652	-20.157	48.994	62.172	1.00	33.91	G	S
25	ATOM	9396	CE	MET	G	652	-18.462	48.754	62.531	1.00	23.43	G	C
	ATOM	9397	C	MET	G	652	-18.440	52.998	60.425	1.00	16.41	G	C
	ATOM	9398	O	MET	G	652	-18.855	53.733	61.317	1.00	18.38	G	O
	ATOM	9399	N	GLN	G	653	-17.157	52.914	60.090	1.00	15.66	G	N
	ATOM	9400	CA	GLN	G	653	-16.118	53.698	60.754	1.00	16.95	G	C
30	ATOM	9401	CB	GLN	G	653	-14.737	53.074	60.525	1.00	17.99	G	C
	ATOM	9402	CG	GLN	G	653	-14.313	52.049	61.530	1.00	26.39	G	C
	ATOM	9403	CD	GLN	G	653	-15.182	50.801	61.491	1.00	35.17	G	C
	ATOM	9404	OE1	GLN	G	653	-15.912	50.508	62.447	1.00	36.99	G	O
	ATOM	9405	NE2	GLN	G	653	-15.110	50.056	60.383	1.00	37.57	G	N
35	ATOM	9406	C	GLN	G	653	-16.024	55.155	60.295	1.00	17.88	G	C
	ATOM	9407	O	GLN	G	653	-15.730	56.030	61.115	1.00	14.38	G	O
	ATOM	9408	N	PHE	G	654	-16.273	55.427	59.005	1.00	15.79	G	N
	ATOM	9409	CA	PHE	G	654	-16.087	56.789	58.491	1.00	13.94	G	C
	ATOM	9410	CB	PHE	G	654	-15.055	56.780	57.351	1.00	15.50	G	C
40	ATOM	9411	CG	PHE	G	654	-13.885	55.858	57.583	1.00	15.25	G	C
	ATOM	9412	CD1	PHE	G	654	-13.706	54.733	56.784	1.00	11.90	G	C
	ATOM	9413	CD2	PHE	G	654	-12.952	56.126	58.584	1.00	13.46	G	C
	ATOM	9414	CE1	PHE	G	654	-12.622	53.892	56.973	1.00	15.61	G	C
	ATOM	9415	CE2	PHE	G	654	-11.851	55.276	58.783	1.00	13.80	G	C
45	ATOM	9416	CZ	PHE	G	654	-11.690	54.161	57.973	1.00	12.89	G	C
	ATOM	9417	C	PHE	G	654	-17.246	57.636	58.014	1.00	14.91	G	C
	ATOM	9418	O	PHE	G	654	-17.101	58.852	57.871	1.00	17.72	G	O
	ATOM	9419	N	HIS	G	655	-18.397	57.036	57.761	1.00	15.73	G	N
	ATOM	9420	CA	HIS	G	655	-19.500	57.824	57.224	1.00	16.43	G	C
50	ATOM	9421	CB	HIS	G	655	-19.973	57.177	55.910	1.00	13.08	G	C
	ATOM	9422	CG	HIS	G	655	-18.861	56.979	54.929	1.00	11.87	G	C
	ATOM	9423	CD2	HIS	G	655	-17.856	56.070	54.895	1.00	9.81	G	C
	ATOM	9424	ND1	HIS	G	655	-18.611	57.860	53.899	1.00	15.48	G	N
	ATOM	9425	CE1	HIS	G	655	-17.500	57.507	53.276	1.00	11.56	G	C
55	ATOM	9426	NE2	HIS	G	655	-17.023	56.424	53.861	1.00	10.60	G	N
	ATOM	9427	C	HIS	G	655	-20.651	58.069	58.177	1.00	17.98	G	C
	ATOM	9428	O	HIS	G	655	-20.828	57.345	59.160	1.00	19.80	G	O
	ATOM	9429	N	PHE	G	656	-21.436	59.098	57.875	1.00	17.93	G	N
	ATOM	9430	CA	PHE	G	656	-22.542	59.477	58.730	1.00	19.56	G	C
60	ATOM	9431	CB	PHE	G	656	-22.459	60.967	59.037	1.00	18.28	G	C
	ATOM	9432	CG	PHE	G	656	-21.207	61.371	59.774	1.00	22.19	G	C
	ATOM	9433	CD1	PHE	G	656	-20.359	62.337	59.241	1.00	22.37	G	C
	ATOM	9434	CD2	PHE	G	656	-20.895	60.817	61.017	1.00	22.60	G	C
	ATOM	9435	CE1	PHE	G	656	-19.224	62.753	59.927	1.00	22.22	G	C
65	ATOM	9436	CE2	PHE	G	656	-19.759	61.230	61.713	1.00	23.61	G	C
	ATOM	9437	CZ	PHE	G	656	-18.924	62.201	61.166	1.00	23.10	G	C
	ATOM	9438	C	PHE	G	656	-23.937	59.176	58.236	1.00	21.93	G	C
	ATOM	9439	O	PHE	G	656	-24.881	59.208	59.028	1.00	26.22	G	O
	ATOM	9440	N	THR	G	657	-24.090	58.863	56.953	1.00	19.76	G	N

	ATOM	9441	CA	THR	G	657	-25.425	58.632	56.411	1.00	18.15	G	C
	ATOM	9442	CB	THR	G	657	-25.733	59.680	55.327	1.00	21.16	G	C
	ATOM	9443	OG1	THR	G	657	-25.126	59.269	54.093	1.00	23.15	G	O
	ATOM	9444	CG2	THR	G	657	-25.154	61.046	55.714	1.00	16.01	G	C
5	ATOM	9445	C	THR	G	657	-25.654	57.254	55.816	1.00	19.51	G	C
	ATOM	9446	O	THR	G	657	-24.734	56.448	55.723	1.00	18.46	G	O
	ATOM	9447	N	LYS	G	658	-26.890	56.999	55.392	1.00	20.43	G	N
	ATOM	9448	CA	LYS	G	658	-27.249	55.712	54.784	1.00	24.26	G	C
10	ATOM	9449	CB	LYS	G	658	-28.766	55.483	54.816	1.00	30.48	G	C
	ATOM	9450	CG	LYS	G	658	-29.480	56.015	56.069	1.00	41.64	G	C
	ATOM	9451	CD	LYS	G	658	-29.794	54.889	57.101	1.00	46.20	G	C
	ATOM	9452	CE	LYS	G	658	-29.483	55.310	58.553	1.00	44.06	G	C
	ATOM	9453	NZ	LYS	G	658	-28.301	54.597	59.098	1.00	42.87	G	N
	ATOM	9454	C	LYS	G	658	-26.782	55.648	53.331	1.00	21.31	G	C
15	ATOM	9455	O	LYS	G	658	-26.976	54.638	52.661	1.00	20.44	G	O
	ATOM	9456	N	GLU	G	659	-26.172	56.731	52.859	1.00	21.03	G	N
	ATOM	9457	CA	GLU	G	659	-25.656	56.820	51.491	1.00	20.05	G	C
	ATOM	9458	CB	GLU	G	659	-26.455	57.854	50.712	1.00	21.73	G	C
	ATOM	9459	CG	GLU	G	659	-27.890	57.445	50.513	1.00	27.59	G	C
20	ATOM	9460	CD	GLU	G	659	-28.569	58.233	49.410	1.00	34.78	G	C
	ATOM	9461	OE1	GLU	G	659	-28.529	57.769	48.252	1.00	38.79	G	O
	ATOM	9462	OE2	GLU	G	659	-29.135	59.315	49.696	1.00	37.62	G	O
	ATOM	9463	C	GLU	G	659	-24.198	57.231	51.536	1.00	15.58	G	C
	ATOM	9464	O	GLU	G	659	-23.845	58.326	51.116	1.00	16.82	G	O
25	ATOM	9465	N	PRO	G	660	-23.325	56.342	52.032	1.00	16.43	G	N
	ATOM	9466	CD	PRO	G	660	-23.651	54.986	52.512	1.00	12.54	G	C
	ATOM	9467	CA	PRO	G	660	-21.892	56.637	52.140	1.00	14.03	G	C
	ATOM	9468	CB	PRO	G	660	-21.312	55.392	52.825	1.00	12.86	G	C
	ATOM	9469	CG	PRO	G	660	-22.322	54.315	52.565	1.00	12.60	G	C
30	ATOM	9470	C	PRO	G	660	-21.164	56.990	50.846	1.00	12.74	G	C
	ATOM	9471	O	PRO	G	660	-20.293	57.871	50.848	1.00	14.91	G	O
	ATOM	9472	N	LEU	G	661	-21.497	56.315	49.750	1.00	12.64	G	N
	ATOM	9473	CA	LEU	G	661	-20.846	56.598	48.474	1.00	9.88	G	C
	ATOM	9474	CB	LEU	G	661	-21.328	55.629	47.395	1.00	10.90	G	C
35	ATOM	9475	CG	LEU	G	661	-20.349	55.002	46.364	1.00	12.43	G	C
	ATOM	9476	CD1	LEU	G	661	-21.004	55.000	44.984	1.00	7.02	G	C
	ATOM	9477	CD2	LEU	G	661	-18.999	55.685	46.343	1.00	5.34	G	C
	ATOM	9478	C	LEU	G	661	-21.170	58.035	48.066	1.00	9.72	G	C
	ATOM	9479	O	LEU	G	661	-20.275	58.793	47.701	1.00	8.15	G	O
40	ATOM	9480	N	MET	G	662	-22.449	58.414	48.128	1.00	10.04	G	N
	ATOM	9481	CA	MET	G	662	-22.832	59.779	47.768	1.00	12.68	G	C
	ATOM	9482	CB	MET	G	662	-24.334	59.966	47.913	1.00	13.50	G	C
	ATOM	9483	CG	MET	G	662	-25.141	59.187	46.897	1.00	16.64	G	C
	ATOM	9484	SD	MET	G	662	-24.643	59.545	45.183	1.00	24.96	G	S
45	ATOM	9485	CE	MET	G	662	-25.645	60.952	44.789	1.00	17.26	G	C
	ATOM	9486	C	MET	G	662	-22.081	60.764	48.670	1.00	15.38	G	C
	ATOM	9487	O	MET	G	662	-21.711	61.865	48.242	1.00	14.98	G	O
	ATOM	9488	N	GLU	G	663	-21.850	60.349	49.914	1.00	14.35	G	N
	ATOM	9489	CA	GLU	G	663	-21.108	61.145	50.890	1.00	14.53	G	C
50	ATOM	9490	CB	GLU	G	663	-21.112	60.423	52.249	1.00	17.65	G	C
	ATOM	9491	CG	GLU	G	663	-21.390	61.300	53.443	1.00	21.09	G	C
	ATOM	9492	CD	GLU	G	663	-21.373	60.533	54.760	1.00	19.99	G	C
	ATOM	9493	OE1	GLU	G	663	-22.173	59.573	54.892	1.00	17.58	G	O
	ATOM	9494	OE2	GLU	G	663	-20.560	60.911	55.641	1.00	20.30	G	O
55	ATOM	9495	C	GLU	G	663	-19.653	61.361	50.411	1.00	10.61	G	C
	ATOM	9496	O	GLU	G	663	-19.162	62.495	50.427	1.00	7.61	G	O
	ATOM	9497	N	GLU	G	664	-18.967	60.279	50.013	1.00	10.03	G	N
	ATOM	9498	CA	GLU	G	664	-17.585	60.379	49.509	1.00	12.75	G	C
	ATOM	9499	CB	GLU	G	664	-17.065	59.051	48.973	1.00	14.98	G	C
60	ATOM	9500	CG	GLU	G	664	-16.585	58.087	50.014	1.00	24.25	G	C
	ATOM	9501	CD	GLU	G	664	-15.229	58.403	50.604	1.00	19.66	G	C
	ATOM	9502	OE1	GLU	G	664	-14.453	59.244	50.082	1.00	17.18	G	O
	ATOM	9503	OE2	GLU	G	664	-14.948	57.767	51.631	1.00	22.91	G	O
	ATOM	9504	C	GLU	G	664	-17.532	61.350	48.351	1.00	11.43	G	C
65	ATOM	9505	O	GLU	G	664	-16.645	62.194	48.279	1.00	12.10	G	O
	ATOM	9506	N	TYR	G	665	-18.486	61.202	47.435	1.00	9.40	G	N
	ATOM	9507	CA	TYR	G	665	-18.565	62.071	46.269	1.00	11.94	G	C
	ATOM	9508	CB	TYR	G	665	-19.682	61.614	45.323	1.00	12.14	G	C

	ATOM	9509	CG	TYR	G	665	-19.265	60.560	44.315	1.00	14.97	G	C
	ATOM	9510	CD1	TYR	G	665	-19.224	59.208	44.666	1.00	10.87	G	C
	ATOM	9511	CE1	TYR	G	665	-18.853	58.228	43.728	1.00	14.35	G	C
5	ATOM	9512	CD2	TYR	G	665	-18.927	60.915	42.996	1.00	14.18	G	C
	ATOM	9513	CE2	TYR	G	665	-18.556	59.942	42.047	1.00	11.96	G	C
	ATOM	9514	CZ	TYR	G	665	-18.520	58.603	42.425	1.00	15.18	G	C
	ATOM	9515	OH	TYR	G	665	-18.126	57.643	41.514	1.00	15.96	G	O
	ATOM	9516	C	TYR	G	665	-18.813	63.521	46.655	1.00	10.85	G	C
10	ATOM	9517	O	TYR	G	665	-18.187	64.422	46.106	1.00	14.01	G	O
	ATOM	9518	N	ALA	G	666	-19.727	63.755	47.592	1.00	8.78	G	N
	ATOM	9519	CA	ALA	G	666	-20.032	65.125	48.009	1.00	8.28	G	C
	ATOM	9520	CB	ALA	G	666	-21.181	65.117	48.993	1.00	5.73	G	C
	ATOM	9521	C	ALA	G	666	-18.840	65.880	48.599	1.00	9.48	G	C
15	ATOM	9522	O	ALA	G	666	-18.525	66.993	48.174	1.00	9.08	G	O
	ATOM	9523	N	ILE	G	667	-18.165	65.290	49.577	1.00	12.97	G	N
	ATOM	9524	CA	ILE	G	667	-17.039	65.998	50.161	1.00	13.45	G	C
	ATOM	9525	CB	ILE	G	667	-16.517	65.326	51.491	1.00	12.68	G	C
	ATOM	9526	CG2	ILE	G	667	-15.983	63.921	51.242	1.00	12.88	G	C
20	ATOM	9527	CG1	ILE	G	667	-15.417	66.196	52.089	1.00	11.91	G	C
	ATOM	9528	CD1	ILE	G	667	-14.723	65.555	53.233	1.00	23.87	G	C
	ATOM	9529	C	ILE	G	667	-15.910	66.146	49.152	1.00	12.54	G	C
	ATOM	9530	O	ILE	G	667	-15.223	67.167	49.143	1.00	11.79	G	O
	ATOM	9531	N	ALA	G	668	-15.721	65.152	48.291	1.00	11.86	G	N
25	ATOM	9532	CA	ALA	G	668	-14.650	65.254	47.301	1.00	11.61	G	C
	ATOM	9533	CB	ALA	G	668	-14.552	63.964	46.492	1.00	8.54	G	C
	ATOM	9534	C	ALA	G	668	-14.941	66.439	46.389	1.00	10.96	G	C
	ATOM	9535	O	ALA	G	668	-14.066	67.237	46.073	1.00	11.27	G	O
	ATOM	9536	N	ALA	G	669	-16.193	66.562	45.979	1.00	12.41	G	N
30	ATOM	9537	CA	ALA	G	669	-16.590	67.651	45.101	1.00	12.72	G	C
	ATOM	9538	CB	ALA	G	669	-18.038	67.487	44.684	1.00	9.38	G	C
	ATOM	9539	C	ALA	G	669	-16.403	68.980	45.804	1.00	14.80	G	C
	ATOM	9540	O	ALA	G	669	-15.900	69.940	45.213	1.00	12.56	G	O
35	ATOM	9541	N	GLN	G	670	-16.812	69.029	47.072	1.00	18.25	G	N
	ATOM	9542	CA	GLN	G	670	-16.704	70.243	47.878	1.00	17.41	G	C
	ATOM	9543	CB	GLN	G	670	-17.377	70.059	49.251	1.00	20.58	G	C
	ATOM	9544	CG	GLN	G	670	-18.786	69.489	49.241	1.00	20.46	G	C
	ATOM	9545	CD	GLN	G	670	-19.839	70.560	49.171	1.00	25.48	G	C
	ATOM	9546	OE1	GLN	G	670	-19.590	71.650	48.655	1.00	29.78	G	O
40	ATOM	9547	NE2	GLN	G	670	-21.033	70.263	49.685	1.00	24.40	G	N
	ATOM	9548	C	GLN	G	670	-15.266	70.719	48.105	1.00	17.05	G	C
	ATOM	9549	O	GLN	G	670	-14.945	71.872	47.793	1.00	16.73	G	O
	ATOM	9550	N	VAL	G	671	-14.394	69.863	48.639	1.00	14.66	G	N
	ATOM	9551	CA	VAL	G	671	-13.043	70.334	48.898	1.00	15.08	G	C
45	ATOM	9552	CB	VAL	G	671	-12.407	69.642	50.187	1.00	15.36	G	C
	ATOM	9553	CG1	VAL	G	671	-13.341	68.634	50.757	1.00	15.82	G	C
	ATOM	9554	CG2	VAL	G	671	-11.047	69.054	49.886	1.00	12.95	G	C
	ATOM	9555	C	VAL	G	671	-12.097	70.284	47.706	1.00	14.79	G	C
	ATOM	9556	O	VAL	G	671	-11.206	71.113	47.610	1.00	15.29	G	O
50	ATOM	9557	N	PHE	G	672	-12.287	69.346	46.785	1.00	15.26	G	N
	ATOM	9558	CA	PHE	G	672	-11.403	69.289	45.620	1.00	15.69	G	C
	ATOM	9559	CB	PHE	G	672	-11.214	67.852	45.154	1.00	12.62	G	C
	ATOM	9560	CG	PHE	G	672	-10.396	67.024	46.102	1.00	14.73	G	C
	ATOM	9561	CD1	PHE	G	672	-9.134	67.450	46.507	1.00	18.16	G	C
55	ATOM	9562	CD2	PHE	G	672	-10.894	65.845	46.621	1.00	13.21	G	C
	ATOM	9563	CE1	PHE	G	672	-8.394	66.706	47.417	1.00	18.63	G	C
	ATOM	9564	CE2	PHE	G	672	-10.158	65.100	47.529	1.00	15.29	G	C
	ATOM	9565	CZ	PHE	G	672	-8.914	65.525	47.928	1.00	15.33	G	C
	ATOM	9566	C	PHE	G	672	-11.958	70.152	44.491	1.00	19.33	G	C
60	ATOM	9567	O	PHE	G	672	-11.331	70.306	43.455	1.00	20.30	G	O
	ATOM	9568	N	LYS	G	673	-13.143	70.715	44.709	1.00	20.20	G	N
	ATOM	9569	CA	LYS	G	673	-13.793	71.608	43.747	1.00	20.63	G	C
	ATOM	9570	CB	LYS	G	673	-13.006	72.929	43.648	1.00	21.44	G	C
	ATOM	9571	CG	LYS	G	673	-13.307	73.895	44.795	1.00	25.50	G	C
65	ATOM	9572	CD	LYS	G	673	-12.208	74.923	44.979	1.00	32.27	G	C
	ATOM	9573	CE	LYS	G	673	-11.072	74.382	45.845	1.00	37.83	G	C
	ATOM	9574	NZ	LYS	G	673	-10.134	75.454	46.339	1.00	38.14	G	N
	ATOM	9575	C	LYS	G	673	-13.964	70.981	42.366	1.00	19.86	G	C
	ATOM	9576	O	LYS	G	673	-13.559	71.547	41.347	1.00	19.61	G	O

	ATOM	9577	N	LEU G 674	-14.586	69.812	42.354	1.00	16.94	G	N
	ATOM	9578	CA	LEU G 674	-14.840	69.053	41.138	1.00	16.44	G	C
	ATOM	9579	CB	LEU G 674	-15.128	67.593	41.505	1.00	14.60	G	C
	ATOM	9580	CG	LEU G 674	-14.017	66.544	41.613	1.00	16.69	G	C
5	ATOM	9581	CD1	LEU G 674	-12.682	67.191	41.798	1.00	14.02	G	C
	ATOM	9582	CD2	LEU G 674	-14.340	65.601	42.757	1.00	13.29	G	C
	ATOM	9583	C	LEU G 674	-16.050	69.609	40.369	1.00	16.11	G	C
	ATOM	9584	O	LEU G 674	-17.032	70.029	40.972	1.00	12.31	G	O
	ATOM	9585	N	SER G 675	-15.983	69.604	39.035	1.00	15.45	G	N
10	ATOM	9586	CA	SER G 675	-17.110	70.068	38.222	1.00	13.75	G	C
	ATOM	9587	CB	SER G 675	-16.645	70.450	36.815	1.00	15.03	G	C
	ATOM	9588	OG	SER G 675	-16.222	69.293	36.110	1.00	19.00	G	O
	ATOM	9589	C	SER G 675	-18.055	68.884	38.122	1.00	12.58	G	C
	ATOM	9590	O	SER G 675	-17.693	67.761	38.502	1.00	13.82	G	O
15	ATOM	9591	N	THR G 676	-19.261	69.096	37.615	1.00	12.25	G	N
	ATOM	9592	CA	THR G 676	-20.165	67.957	37.512	1.00	14.41	G	C
	ATOM	9593	CB	THR G 676	-21.637	68.410	37.268	1.00	16.34	G	C
	ATOM	9594	OG1	THR G 676	-22.303	67.475	36.405	1.00	24.71	G	O
	ATOM	9595	CG2	THR G 676	-21.681	69.768	36.673	1.00	21.37	G	C
20	ATOM	9596	C	THR G 676	-19.655	66.977	36.439	1.00	13.09	G	C
	ATOM	9597	O	THR G 676	-19.887	65.764	36.524	1.00	12.74	G	O
	ATOM	9598	N	CYS G 677	-18.912	67.497	35.462	1.00	11.73	G	N
	ATOM	9599	CA	CYS G 677	-18.337	66.647	34.435	1.00	9.64	G	C
	ATOM	9600	CB	CYS G 677	-17.733	67.486	33.302	1.00	9.18	G	C
25	ATOM	9601	SG	CYS G 677	-17.081	66.466	31.911	1.00	11.39	G	S
	ATOM	9602	C	CYS G 677	-17.258	65.786	35.093	1.00	10.69	G	C
	ATOM	9603	O	CYS G 677	-17.134	64.600	34.783	1.00	11.71	G	O
	ATOM	9604	N	ASP G 678	-16.484	66.375	36.006	1.00	10.87	G	N
	ATOM	9605	CA	ASP G 678	-15.437	65.639	36.720	1.00	9.67	G	C
30	ATOM	9606	CB	ASP G 678	-14.742	66.543	37.740	1.00	11.56	G	C
	ATOM	9607	CG	ASP G 678	-13.883	67.618	37.097	1.00	16.64	G	C
	ATOM	9608	OD1	ASP G 678	-13.389	67.407	35.964	1.00	20.20	G	O
	ATOM	9609	OD2	ASP G 678	-13.689	68.678	37.730	1.00	13.25	G	O
	ATOM	9610	C	ASP G 678	-16.071	64.470	37.481	1.00	11.75	G	C
35	ATOM	9611	O	ASP G 678	-15.595	63.337	37.432	1.00	13.24	G	O
	ATOM	9612	N	MET G 679	-17.155	64.761	38.187	1.00	12.30	G	N
	ATOM	9613	CA	MET G 679	-17.859	63.760	38.971	1.00	14.98	G	C
	ATOM	9614	CB	MET G 679	-18.963	64.440	39.783	1.00	17.55	G	C
	ATOM	9615	CG	MET G 679	-18.478	65.496	40.779	1.00	22.48	G	C
40	ATOM	9616	SD	MET G 679	-19.886	66.005	41.818	1.00	36.17	G	S
	ATOM	9617	CE	MET G 679	-20.248	67.651	41.150	1.00	32.88	G	C
	ATOM	9618	C	MET G 679	-18.467	62.621	38.135	1.00	14.61	G	C
	ATOM	9619	O	MET G 679	-18.403	61.453	38.519	1.00	14.94	G	O
	ATOM	9620	N	CYS G 680	-19.072	62.955	37.001	1.00	13.40	G	N
45	ATOM	9621	CA	CYS G 680	-19.680	61.926	36.158	1.00	12.37	G	C
	ATOM	9622	CB	CYS G 680	-20.591	62.583	35.115	1.00	13.04	G	C
	ATOM	9623	SG	CYS G 680	-22.072	63.390	35.849	1.00	21.26	G	S
	ATOM	9624	C	CYS G 680	-18.595	61.067	35.496	1.00	11.56	G	C
	ATOM	9625	O	CYS G 680	-18.817	59.893	35.147	1.00	10.00	G	O
50	ATOM	9626	N	GLU G 681	-17.412	61.649	35.337	1.00	9.84	G	N
	ATOM	9627	CA	GLU G 681	-16.299	60.909	34.763	1.00	10.55	G	C
	ATOM	9628	CB	GLU G 681	-15.129	61.849	34.399	1.00	10.52	G	C
	ATOM	9629	CG	GLU G 681	-13.967	61.110	33.709	1.00	13.92	G	C
	ATOM	9630	CD	GLU G 681	-12.774	61.993	33.323	1.00	13.19	G	C
55	ATOM	9631	OE1	GLU G 681	-12.601	63.112	33.858	1.00	12.78	G	O
	ATOM	9632	OE2	GLU G 681	-11.984	61.542	32.470	1.00	17.19	G	O
	ATOM	9633	C	GLU G 681	-15.842	59.876	35.804	1.00	11.43	G	C
	ATOM	9634	O	GLU G 681	-15.539	58.731	35.460	1.00	11.43	G	O
	ATOM	9635	N	VAL G 682	-15.784	60.274	37.077	1.00	10.85	G	N
60	ATOM	9636	CA	VAL G 682	-15.363	59.346	38.129	1.00	8.68	G	C
	ATOM	9637	CB	VAL G 682	-15.225	60.073	39.503	1.00	8.59	G	C
	ATOM	9638	CG1	VAL G 682	-15.097	59.049	40.645	1.00	7.49	G	C
	ATOM	9639	CG2	VAL G 682	-13.995	60.993	39.478	1.00	4.15	G	C
	ATOM	9640	C	VAL G 682	-16.396	58.219	38.213	1.00	8.30	G	C
65	ATOM	9641	O	VAL G 682	-16.047	57.038	38.284	1.00	10.74	G	O
	ATOM	9642	N	ALA G 683	-17.670	58.589	38.168	1.00	8.67	G	N
	ATOM	9643	CA	ALA G 683	-18.756	57.615	38.221	1.00	7.11	G	C
	ATOM	9644	CB	ALA G 683	-20.090	58.323	38.100	1.00	5.63	G	C

	ATOM	9645	C	ALA	G	683	-18.615	56.599	37.099	1.00	9.22	G	C
	ATOM	9646	O	ALA	G	683	-18.763	55.402	37.325	1.00	8.80	G	O
	ATOM	9647	N	ARG	G	684	-18.338	57.079	35.885	1.00	11.78	G	N
5	ATOM	9648	CA	ARG	G	684	-18.187	56.190	34.720	1.00	11.38	G	C
	ATOM	9649	CB	ARG	G	684	-17.993	57.012	33.434	1.00	12.02	G	C
	ATOM	9650	CG	ARG	G	684	-17.826	56.167	32.163	1.00	11.27	G	C
	ATOM	9651	CD	ARG	G	684	-17.799	57.034	30.891	1.00	13.74	G	C
	ATOM	9652	NE	ARG	G	684	-17.765	56.234	29.665	1.00	14.34	G	N
10	ATOM	9653	CZ	ARG	G	684	-16.642	55.813	29.092	1.00	16.12	G	C
	ATOM	9654	NH1	ARG	G	684	-15.470	56.121	29.638	1.00	13.70	G	N
	ATOM	9655	NH2	ARG	G	684	-16.685	55.079	27.981	1.00	17.93	G	N
	ATOM	9656	C	ARG	G	684	-16.999	55.254	34.930	1.00	10.99	G	C
	ATOM	9657	O	ARG	G	684	-17.092	54.059	34.660	1.00	11.13	G	O
15	ATOM	9658	N	ASN	G	685	-15.880	55.798	35.405	1.00	10.87	G	N
	ATOM	9659	CA	ASN	G	685	-14.703	54.973	35.696	1.00	11.65	G	C
	ATOM	9660	CB	ASN	G	685	-13.562	55.817	36.292	1.00	12.76	G	C
	ATOM	9661	CG	ASN	G	685	-12.951	56.784	35.275	1.00	16.02	G	C
	ATOM	9662	OD1	ASN	G	685	-13.205	56.690	34.077	1.00	15.86	G	O
20	ATOM	9663	ND2	ASN	G	685	-12.149	57.710	35.755	1.00	14.71	G	N
	ATOM	9664	C	ASN	G	685	-15.050	53.864	36.693	1.00	11.86	G	C
	ATOM	9665	O	ASN	G	685	-14.572	52.732	36.564	1.00	11.73	G	O
	ATOM	9666	N	SER	G	686	-15.878	54.180	37.687	1.00	10.38	G	N
	ATOM	9667	CA	SER	G	686	-16.250	53.167	38.671	1.00	9.91	G	C
25	ATOM	9668	CB	SER	G	686	-17.035	53.804	39.833	1.00	7.99	G	C
	ATOM	9669	OG	SER	G	686	-18.395	54.069	39.531	1.00	8.81	G	O
	ATOM	9670	C	SER	G	686	-17.028	52.015	38.031	1.00	11.22	G	C
	ATOM	9671	O	SER	G	686	-16.794	50.852	38.373	1.00	13.61	G	O
	ATOM	9672	N	VAL	G	687	-17.925	52.313	37.089	1.00	11.60	G	N
30	ATOM	9673	CA	VAL	G	687	-18.688	51.250	36.421	1.00	10.47	G	C
	ATOM	9674	CB	VAL	G	687	-19.850	51.796	35.551	1.00	10.80	G	C
	ATOM	9675	CG1	VAL	G	687	-20.706	50.624	35.060	1.00	10.30	G	C
	ATOM	9676	CG2	VAL	G	687	-20.730	52.737	36.365	1.00	8.89	G	C
	ATOM	9677	C	VAL	G	687	-17.778	50.409	35.538	1.00	11.13	G	C
35	ATOM	9678	O	VAL	G	687	-17.907	49.187	35.488	1.00	12.13	G	O
	ATOM	9679	N	LEU	G	688	-16.848	51.063	34.853	1.00	11.56	G	N
	ATOM	9680	CA	LEU	G	688	-15.885	50.368	33.998	1.00	11.41	G	C
	ATOM	9681	CB	LEU	G	688	-14.996	51.382	33.267	1.00	6.08	G	C
	ATOM	9682	CG	LEU	G	688	-15.604	52.194	32.121	1.00	13.00	G	C
40	ATOM	9683	CD1	LEU	G	688	-14.580	53.183	31.569	1.00	7.27	G	C
	ATOM	9684	CD2	LEU	G	688	-16.081	51.238	31.027	1.00	8.60	G	C
	ATOM	9685	C	LEU	G	688	-14.979	49.456	34.846	1.00	12.37	G	C
	ATOM	9686	O	LEU	G	688	-14.630	48.344	34.444	1.00	12.60	G	O
	ATOM	9687	N	GLN	G	689	-14.573	49.948	36.010	1.00	11.76	G	N
45	ATOM	9688	CA	GLN	G	689	-13.696	49.203	36.911	1.00	10.41	G	C
	ATOM	9689	CB	GLN	G	689	-13.160	50.151	37.994	1.00	10.95	G	C
	ATOM	9690	CG	GLN	G	689	-12.340	49.444	39.059	1.00	10.71	G	C
	ATOM	9691	CD	GLN	G	689	-11.621	50.382	40.011	1.00	7.48	G	C
	ATOM	9692	OE1	GLN	G	689	-10.737	49.958	40.743	1.00	15.70	G	O
50	ATOM	9693	NE2	GLN	G	689	-11.999	51.649	40.015	1.00	9.36	G	N
	ATOM	9694	C	GLN	G	689	-14.326	47.975	37.600	1.00	11.42	G	C
	ATOM	9695	O	GLN	G	689	-13.676	46.937	37.728	1.00	12.23	G	O
	ATOM	9696	N	CYS	G	690	-15.586	48.090	38.023	1.00	13.93	G	N
	ATOM	9697	CA	CYS	G	690	-16.271	47.022	38.749	1.00	13.70	G	C
55	ATOM	9698	CB	CYS	G	690	-17.583	47.557	39.309	1.00	13.87	G	C
	ATOM	9699	SG	CYS	G	690	-18.884	47.730	38.098	1.00	15.64	G	S
	ATOM	9700	C	CYS	G	690	-16.531	45.682	38.053	1.00	17.40	G	C
	ATOM	9701	O	CYS	G	690	-16.308	45.534	36.852	1.00	18.09	G	O
	ATOM	9702	N	GLY	G	691	-17.019	44.713	38.831	1.00	14.73	G	N
60	ATOM	9703	CA	GLY	G	691	-17.308	43.390	38.312	1.00	14.05	G	C
	ATOM	9704	C	GLY	G	691	-18.751	43.146	37.898	1.00	16.15	G	C
	ATOM	9705	O	GLY	G	691	-19.184	41.995	37.795	1.00	20.26	G	O
	ATOM	9706	N	ILE	G	692	-19.501	44.214	37.657	1.00	15.23	G	N
	ATOM	9707	CA	ILE	G	692	-20.882	44.075	37.229	1.00	16.51	G	C
65	ATOM	9708	CB	ILE	G	692	-21.540	45.458	37.185	1.00	15.04	G	C
	ATOM	9709	CG2	ILE	G	692	-22.845	45.423	36.378	1.00	13.41	G	C
	ATOM	9710	CG1	ILE	G	692	-21.805	45.902	38.621	1.00	15.21	G	C
	ATOM	9711	CD1	ILE	G	692	-22.462	47.263	38.748	1.00	13.75	G	C
	ATOM	9712	C	ILE	G	692	-20.938	43.357	35.859	1.00	16.22	G	C

	ATOM	9713	O	ILE	G	692	-19.967	43.385	35.102	1.00	15.35	G	O
	ATOM	9714	N	SER	G	693	-22.054	42.688	35.560	1.00	15.26	G	N
	ATOM	9715	CA	SER	G	693	-22.180	41.943	34.303	1.00	15.89	G	C
	ATOM	9716	CB	SER	G	693	-23.475	41.149	34.279	1.00	15.07	G	C
5	ATOM	9717	OG	SER	G	693	-24.570	42.010	34.039	1.00	21.15	G	O
	ATOM	9718	C	SER	G	693	-22.126	42.824	33.067	1.00	17.24	G	C
	ATOM	9719	O	SER	G	693	-22.482	44.009	33.115	1.00	16.16	G	O
	ATOM	9720	N	HIS	G	694	-21.685	42.234	31.955	1.00	19.79	G	N
10	ATOM	9721	CA	HIS	G	694	-21.580	42.964	30.692	1.00	22.84	G	C
	ATOM	9722	CB	HIS	G	694	-21.019	42.058	29.588	1.00	24.27	G	C
	ATOM	9723	CG	HIS	G	694	-20.983	42.710	28.238	1.00	26.90	G	C
	ATOM	9724	CD2	HIS	G	694	-20.203	43.703	27.751	1.00	26.90	G	C
	ATOM	9725	ND1	HIS	G	694	-21.859	42.381	27.224	1.00	29.56	G	N
	ATOM	9726	CE1	HIS	G	694	-21.622	43.143	26.173	1.00	25.77	G	C
15	ATOM	9727	NE2	HIS	G	694	-20.622	43.954	26.468	1.00	30.54	G	N
	ATOM	9728	C	HIS	G	694	-22.919	43.541	30.245	1.00	21.07	G	C
	ATOM	9729	O	HIS	G	694	-22.978	44.670	29.762	1.00	19.59	G	O
	ATOM	9730	N	GLU	G	695	-23.987	42.767	30.420	1.00	22.00	G	N
20	ATOM	9731	CA	GLU	G	695	-25.322	43.199	30.026	1.00	24.98	G	C
	ATOM	9732	CB	GLU	G	695	-26.348	42.071	30.266	1.00	33.71	G	C
	ATOM	9733	CG	GLU	G	695	-27.805	42.415	29.844	1.00	47.17	G	C
	ATOM	9734	CD	GLU	G	695	-28.883	42.120	30.931	1.00	54.72	G	C
	ATOM	9735	OE1	GLU	G	695	-29.421	40.981	30.945	1.00	56.77	G	O
	ATOM	9736	OE2	GLU	G	695	-29.201	43.025	31.756	1.00	54.33	G	O
25	ATOM	9737	C	GLU	G	695	-25.751	44.450	30.769	1.00	22.48	G	C
	ATOM	9738	O	GLU	G	695	-26.324	45.364	30.175	1.00	22.89	G	O
	ATOM	9739	N	GLU	G	696	-25.476	44.506	32.066	1.00	20.07	G	N
	ATOM	9740	CA	GLU	G	696	-25.885	45.670	32.848	1.00	20.55	G	C
30	ATOM	9741	CB	GLU	G	696	-25.854	45.344	34.330	1.00	21.55	G	C
	ATOM	9742	CG	GLU	G	696	-27.027	44.520	34.757	1.00	30.39	G	C
	ATOM	9743	CD	GLU	G	696	-26.757	43.818	36.067	1.00	40.97	G	C
	ATOM	9744	OE1	GLU	G	696	-27.206	44.350	37.125	1.00	41.09	G	O
	ATOM	9745	OE2	GLU	G	696	-26.086	42.746	36.030	1.00	39.77	G	O
	ATOM	9746	C	GLU	G	696	-25.027	46.885	32.570	1.00	15.99	G	C
35	ATOM	9747	O	GLU	G	696	-25.520	48.010	32.567	1.00	15.53	G	O
	ATOM	9748	N	LYS	G	697	-23.741	46.658	32.342	1.00	15.61	G	N
	ATOM	9749	CA	LYS	G	697	-22.840	47.761	32.049	1.00	20.43	G	C
	ATOM	9750	CB	LYS	G	697	-21.404	47.274	31.981	1.00	18.07	G	C
40	ATOM	9751	CG	LYS	G	697	-20.781	47.095	33.340	1.00	19.30	G	C
	ATOM	9752	CD	LYS	G	697	-19.306	46.873	33.197	1.00	17.52	G	C
	ATOM	9753	CE	LYS	G	697	-18.705	46.384	34.479	1.00	16.21	G	C
	ATOM	9754	NZ	LYS	G	697	-17.250	46.196	34.293	1.00	17.89	G	N
	ATOM	9755	C	LYS	G	697	-23.219	48.424	30.730	1.00	22.04	G	C
	ATOM	9756	O	LYS	G	697	-23.225	49.647	30.627	1.00	25.10	G	O
45	ATOM	9757	N	ALA	G	698	-23.545	47.619	29.723	1.00	21.59	G	N
	ATOM	9758	CA	ALA	G	698	-23.941	48.169	28.430	1.00	22.17	G	C
	ATOM	9759	CB	ALA	G	698	-24.240	47.029	27.434	1.00	19.37	G	C
	ATOM	9760	C	ALA	G	698	-25.185	49.021	28.659	1.00	21.61	G	C
	ATOM	9761	O	ALA	G	698	-25.389	50.041	27.999	1.00	19.97	G	O
50	ATOM	9762	N	LYS	G	699	-26.009	48.596	29.616	1.00	23.00	G	N
	ATOM	9763	CA	LYS	G	699	-27.238	49.305	29.960	1.00	22.14	G	C
	ATOM	9764	CB	LYS	G	699	-28.113	48.421	30.850	1.00	25.29	G	C
	ATOM	9765	CG	LYS	G	699	-29.397	49.090	31.326	1.00	28.90	G	C
	ATOM	9766	CD	LYS	G	699	-30.251	48.126	32.152	1.00	33.78	G	C
55	ATOM	9767	CE	LYS	G	699	-30.706	48.747	33.479	1.00	32.27	G	C
	ATOM	9768	NZ	LYS	G	699	-31.652	49.866	33.262	1.00	31.90	G	N
	ATOM	9769	C	LYS	G	699	-26.995	50.642	30.657	1.00	20.90	G	C
	ATOM	9770	O	LYS	G	699	-27.686	51.619	30.377	1.00	20.28	G	O
	ATOM	9771	N	PHE	G	700	-26.015	50.681	31.562	1.00	21.21	G	N
60	ATOM	9772	CA	PHE	G	700	-25.690	51.907	32.310	1.00	19.59	G	C
	ATOM	9773	CB	PHE	G	700	-24.947	51.569	33.615	1.00	17.14	G	C
	ATOM	9774	CG	PHE	G	700	-25.672	50.601	34.516	1.00	18.16	G	C
	ATOM	9775	CD1	PHE	G	700	-27.064	50.555	34.548	1.00	16.00	G	C
	ATOM	9776	CD2	PHE	G	700	-24.946	49.736	35.346	1.00	16.93	G	C
65	ATOM	9777	CE1	PHE	G	700	-27.734	49.659	35.395	1.00	14.86	G	C
	ATOM	9778	CE2	PHE	G	700	-25.593	48.839	36.191	1.00	15.85	G	C
	ATOM	9779	CZ	PHE	G	700	-26.999	48.799	36.216	1.00	12.98	G	C
	ATOM	9780	C	PHE	G	700	-24.814	52.888	31.530	1.00	17.42	G	C

	ATOM	9781	O	PHE	G	700	-24.953	54.109	31.662	1.00	15.73	G	O
	ATOM	9782	N	LEU	G	701	-23.907	52.338	30.727	1.00	15.51	G	N
	ATOM	9783	CA	LEU	G	701	-22.943	53.134	29.977	1.00	16.86	G	C
	ATOM	9784	CB	LEU	G	701	-21.543	52.579	30.240	1.00	14.85	G	C
5	ATOM	9785	CG	LEU	G	701	-21.071	52.438	31.688	1.00	13.20	G	C
	ATOM	9786	CD1	LEU	G	701	-19.680	51.833	31.678	1.00	12.05	G	C
	ATOM	9787	CD2	LEU	G	701	-21.045	53.800	32.368	1.00	7.80	G	C
	ATOM	9788	C	LEU	G	701	-23.125	53.253	28.462	1.00	17.86	G	C
10	ATOM	9789	O	LEU	G	701	-22.554	54.148	27.836	1.00	15.32	G	O
	ATOM	9790	N	GLY	G	702	-23.906	52.349	27.881	1.00	19.52	G	N
	ATOM	9791	CA	GLY	G	702	-24.112	52.346	26.443	1.00	20.65	G	C
	ATOM	9792	C	GLY	G	702	-23.514	51.064	25.872	1.00	22.17	G	C
	ATOM	9793	O	GLY	G	702	-22.535	50.520	26.396	1.00	21.12	G	O
	ATOM	9794	N	ASN	G	703	-24.085	50.582	24.776	1.00	24.32	G	N
15	ATOM	9795	CA	ASN	G	703	-23.628	49.337	24.161	1.00	23.90	G	C
	ATOM	9796	CB	ASN	G	703	-24.570	48.962	23.029	1.00	25.15	G	C
	ATOM	9797	CG	ASN	G	703	-25.950	48.629	23.528	1.00	31.41	G	C
	ATOM	9798	OD1	ASN	G	703	-26.121	47.752	24.381	1.00	35.53	G	O
	ATOM	9799	ND2	ASN	G	703	-26.945	49.329	23.013	1.00	33.68	G	N
20	ATOM	9800	C	ASN	G	703	-22.192	49.248	23.668	1.00	23.36	G	C
	ATOM	9801	O	ASN	G	703	-21.659	48.153	23.538	1.00	24.55	G	O
	ATOM	9802	N	ASN	G	704	-21.550	50.379	23.413	1.00	22.24	G	N
	ATOM	9803	CA	ASN	G	704	-20.183	50.362	22.919	1.00	21.44	G	C
	ATOM	9804	CB	ASN	G	704	-20.065	51.330	21.755	1.00	29.64	G	C
25	ATOM	9805	CG	ASN	G	704	-19.645	50.648	20.484	1.00	36.35	G	C
	ATOM	9806	OD1	ASN	G	704	-18.457	50.634	20.133	1.00	37.26	G	O
	ATOM	9807	ND2	ASN	G	704	-20.617	50.070	19.778	1.00	39.47	G	N
	ATOM	9808	C	ASN	G	704	-19.153	50.744	23.967	1.00	20.58	G	C
	ATOM	9809	O	ASN	G	704	-18.018	51.087	23.630	1.00	16.55	G	O
30	ATOM	9810	N	TYR	G	705	-19.551	50.674	25.233	1.00	21.21	G	N
	ATOM	9811	CA	TYR	G	705	-18.684	51.057	26.351	1.00	19.10	G	C
	ATOM	9812	CB	TYR	G	705	-19.430	50.835	27.679	1.00	17.81	G	C
	ATOM	9813	CG	TYR	G	705	-19.384	49.411	28.184	1.00	14.23	G	C
	ATOM	9814	CD1	TYR	G	705	-20.367	48.495	27.829	1.00	14.84	G	C
35	ATOM	9815	CE1	TYR	G	705	-20.304	47.175	28.259	1.00	14.60	G	C
	ATOM	9816	CD2	TYR	G	705	-18.332	48.975	28.989	1.00	13.12	G	C
	ATOM	9817	CE2	TYR	G	705	-18.255	47.659	29.426	1.00	14.36	G	C
	ATOM	9818	CZ	TYR	G	705	-19.241	46.766	29.056	1.00	15.43	G	C
	ATOM	9819	OH	TYR	G	705	-19.145	45.465	29.470	1.00	16.35	G	O
40	ATOM	9820	C	TYR	G	705	-17.317	50.379	26.401	1.00	18.72	G	C
	ATOM	9821	O	TYR	G	705	-16.398	50.885	27.037	1.00	19.75	G	O
	ATOM	9822	N	LEU	G	706	-17.167	49.239	25.738	1.00	19.46	G	N
	ATOM	9823	CA	LEU	G	706	-15.885	48.549	25.763	1.00	21.36	G	C
	ATOM	9824	CB	LEU	G	706	-16.074	47.065	25.441	1.00	20.95	G	C
45	ATOM	9825	CG	LEU	G	706	-16.509	46.178	26.605	1.00	20.01	G	C
	ATOM	9826	CD1	LEU	G	706	-16.999	44.840	26.064	1.00	21.16	G	C
	ATOM	9827	CD2	LEU	G	706	-15.350	45.971	27.554	1.00	17.61	G	C
	ATOM	9828	C	LEU	G	706	-14.877	49.170	24.796	1.00	23.33	G	C
	ATOM	9829	O	LEU	G	706	-13.685	48.855	24.839	1.00	25.49	G	O
50	ATOM	9830	N	GLU	G	707	-15.359	50.048	23.924	1.00	23.05	G	N
	ATOM	9831	CA	GLU	G	707	-14.495	50.724	22.962	1.00	23.69	G	C
	ATOM	9832	CB	GLU	G	707	-15.322	51.192	21.758	1.00	28.43	G	C
	ATOM	9833	CG	GLU	G	707	-15.783	50.062	20.847	1.00	34.42	G	C
	ATOM	9834	CD	GLU	G	707	-14.716	48.985	20.672	1.00	41.50	G	C
55	ATOM	9835	OE1	GLU	G	707	-15.009	47.791	20.938	1.00	43.49	G	O
	ATOM	9836	OE2	GLU	G	707	-13.580	49.339	20.273	1.00	43.06	G	O
	ATOM	9837	C	GLU	G	707	-13.861	51.925	23.655	1.00	23.51	G	C
	ATOM	9838	O	GLU	G	707	-14.531	52.632	24.402	1.00	23.12	G	O
	ATOM	9839	N	GLU	G	708	-12.581	52.162	23.401	1.00	21.91	G	N
60	ATOM	9840	CA	GLU	G	708	-11.866	53.267	24.032	1.00	23.90	G	C
	ATOM	9841	CB	GLU	G	708	-10.388	52.897	24.199	1.00	24.68	G	C
	ATOM	9842	CG	GLU	G	708	-10.154	51.391	24.085	1.00	31.65	G	C
	ATOM	9843	CD	GLU	G	708	-9.069	50.856	24.991	1.00	32.86	G	C
	ATOM	9844	OE1	GLU	G	708	-8.017	51.505	25.112	1.00	34.16	G	O
65	ATOM	9845	OE2	GLU	G	708	-9.266	49.766	25.573	1.00	36.86	G	O
	ATOM	9846	C	GLU	G	708	-12.015	54.589	23.286	1.00	22.68	G	C
	ATOM	9847	O	GLU	G	708	-12.181	54.616	22.074	1.00	23.33	G	O
	ATOM	9848	N	GLY	G	709	-11.975	55.688	24.032	1.00	20.69	G	N

	ATOM	9849	CA	GLY	G	709	-12.126	56.997	23.426	1.00	16.58	G	C
	ATOM	9850	C	GLY	G	709	-13.584	57.390	23.336	1.00	14.76	G	C
	ATOM	9851	O	GLY	G	709	-14.458	56.663	23.822	1.00	13.36	G	O
	ATOM	9852	N	PRO	G	710	-13.876	58.534	22.704	1.00	14.34	G	N
5	ATOM	9853	CD	PRO	G	710	-12.858	59.407	22.095	1.00	12.48	G	C
	ATOM	9854	CA	PRO	G	710	-15.227	59.073	22.528	1.00	14.42	G	C
	ATOM	9855	CB	PRO	G	710	-15.005	60.308	21.665	1.00	13.02	G	C
	ATOM	9856	CG	PRO	G	710	-13.595	60.688	21.914	1.00	10.88	G	C
10	ATOM	9857	C	PRO	G	710	-16.233	58.106	21.903	1.00	15.95	G	C
	ATOM	9858	O	PRO	G	710	-17.433	58.184	22.169	1.00	18.05	G	O
	ATOM	9859	N	ILE	G	711	-15.748	57.199	21.068	1.00	16.06	G	N
	ATOM	9860	CA	ILE	G	711	-16.624	56.241	20.429	1.00	17.25	G	C
	ATOM	9861	CB	ILE	G	711	-15.850	55.411	19.350	1.00	19.20	G	C
	ATOM	9862	CG2	ILE	G	711	-15.141	54.209	19.968	1.00	16.76	G	C
15	ATOM	9863	CG1	ILE	G	711	-16.829	54.908	18.292	1.00	21.59	G	C
	ATOM	9864	CD1	ILE	G	711	-17.756	56.001	17.742	1.00	21.75	G	C
	ATOM	9865	C	ILE	G	711	-17.285	55.312	21.457	1.00	18.45	G	C
	ATOM	9866	O	ILE	G	711	-18.387	54.809	21.227	1.00	21.60	G	O
	ATOM	9867	N	GLY	G	712	-16.632	55.100	22.596	1.00	17.49	G	N
20	ATOM	9868	CA	GLY	G	712	-17.205	54.229	23.609	1.00	16.90	G	C
	ATOM	9869	C	GLY	G	712	-18.130	54.928	24.593	1.00	18.42	G	C
	ATOM	9870	O	GLY	G	712	-18.774	54.277	25.415	1.00	21.83	G	O
	ATOM	9871	N	ASN	G	713	-18.227	56.247	24.512	1.00	16.03	G	N
	ATOM	9872	CA	ASN	G	713	-19.062	56.983	25.452	1.00	14.50	G	C
25	ATOM	9873	CB	ASN	G	713	-18.328	58.235	25.962	1.00	11.97	G	C
	ATOM	9874	CG	ASN	G	713	-19.159	59.037	26.949	1.00	11.69	G	C
	ATOM	9875	OD1	ASN	G	713	-19.302	60.251	26.815	1.00	16.57	G	O
	ATOM	9876	ND2	ASN	G	713	-19.717	58.364	27.939	1.00	8.63	G	N
	ATOM	9877	C	ASN	G	713	-20.384	57.408	24.882	1.00	15.15	G	C
30	ATOM	9878	O	ASN	G	713	-20.442	58.002	23.812	1.00	16.04	G	O
	ATOM	9879	N	ASP	G	714	-21.447	57.111	25.618	1.00	16.28	G	N
	ATOM	9880	CA	ASP	G	714	-22.797	57.498	25.228	1.00	15.62	G	C
	ATOM	9881	CB	ASP	G	714	-23.702	56.265	25.220	1.00	17.09	G	C
	ATOM	9882	CG	ASP	G	714	-25.114	56.577	24.768	1.00	19.58	G	C
35	ATOM	9883	OD1	ASP	G	714	-25.468	57.781	24.680	1.00	19.41	G	O
	ATOM	9884	OD2	ASP	G	714	-25.869	55.610	24.503	1.00	19.03	G	O
	ATOM	9885	C	ASP	G	714	-23.247	58.499	26.300	1.00	15.44	G	C
	ATOM	9886	O	ASP	G	714	-23.715	58.104	27.362	1.00	14.02	G	O
	ATOM	9887	N	ILE	G	715	-23.098	59.791	26.016	1.00	13.48	G	N
40	ATOM	9888	CA	ILE	G	715	-23.442	60.836	26.969	1.00	14.51	G	C
	ATOM	9889	CB	ILE	G	715	-23.174	62.251	26.366	1.00	15.78	G	C
	ATOM	9890	CG2	ILE	G	715	-24.174	62.550	25.247	1.00	12.78	G	C
	ATOM	9891	CG1	ILE	G	715	-23.267	63.322	27.464	1.00	12.34	G	C
	ATOM	9892	CD1	ILE	G	715	-22.912	64.718	26.984	1.00	6.89	G	C
45	ATOM	9893	C	ILE	G	715	-24.873	60.765	27.469	1.00	16.34	G	C
	ATOM	9894	O	ILE	G	715	-25.178	61.198	28.587	1.00	17.74	G	O
	ATOM	9895	N	ARG	G	716	-25.761	60.223	26.651	1.00	16.44	G	N
	ATOM	9896	CA	ARG	G	716	-27.155	60.119	27.055	1.00	18.94	G	C
	ATOM	9897	CB	ARG	G	716	-28.015	59.581	25.907	1.00	21.52	G	C
50	ATOM	9898	CG	ARG	G	716	-28.396	60.623	24.867	1.00	28.51	G	C
	ATOM	9899	CD	ARG	G	716	-28.882	59.954	23.587	1.00	36.66	G	C
	ATOM	9900	NE	ARG	G	716	-28.089	58.762	23.264	1.00	44.58	G	N
	ATOM	9901	CZ	ARG	G	716	-28.482	57.779	22.449	1.00	46.60	G	C
	ATOM	9902	NH1	ARG	G	716	-29.668	57.825	21.853	1.00	45.95	G	N
55	ATOM	9903	NH2	ARG	G	716	-27.685	56.740	22.229	1.00	46.57	G	N
	ATOM	9904	C	ARG	G	716	-27.286	59.200	28.264	1.00	18.97	G	C
	ATOM	9905	O	ARG	G	716	-28.282	59.255	28.976	1.00	20.26	G	O
	ATOM	9906	N	LYS	G	717	-26.277	58.362	28.486	1.00	17.51	G	N
	ATOM	9907	CA	LYS	G	717	-26.273	57.431	29.607	1.00	18.17	G	C
60	ATOM	9908	CB	LYS	G	717	-25.956	56.025	29.094	1.00	18.19	G	C
	ATOM	9909	CG	LYS	G	717	-27.152	55.394	28.386	1.00	21.39	G	C
	ATOM	9910	CD	LYS	G	717	-26.838	54.028	27.854	1.00	24.88	G	C
	ATOM	9911	CE	LYS	G	717	-28.131	53.281	27.546	1.00	29.20	G	C
	ATOM	9912	NZ	LYS	G	717	-27.891	52.003	26.776	1.00	33.97	G	N
65	ATOM	9913	C	LYS	G	717	-25.307	57.789	30.740	1.00	18.08	G	C
	ATOM	9914	O	LYS	G	717	-25.590	57.531	31.916	1.00	16.92	G	O
	ATOM	9915	N	THR	G	718	-24.179	58.391	30.380	1.00	15.23	G	N
	ATOM	9916	CA	THR	G	718	-23.142	58.748	31.339	1.00	13.26	G	C

	ATOM	9917	CB	THR	G	718	-21.771	58.367	30.775	1.00	13.30	G	C
	ATOM	9918	OG1	THR	G	718	-21.435	59.271	29.714	1.00	14.14	G	O
	ATOM	9919	CG2	THR	G	718	-21.793	56.939	30.233	1.00	10.68	G	C
5	ATOM	9920	C	THR	G	718	-23.053	60.212	31.782	1.00	15.01	G	C
	ATOM	9921	O	THR	G	718	-22.491	60.504	32.837	1.00	15.07	G	O
	ATOM	9922	N	ASN	G	719	-23.588	61.126	30.979	1.00	12.83	G	N
	ATOM	9923	CA	ASN	G	719	-23.507	62.553	31.262	1.00	12.01	G	C
	ATOM	9924	CB	ASN	G	719	-24.207	62.909	32.570	1.00	13.27	G	C
10	ATOM	9925	CG	ASN	G	719	-24.674	64.355	32.593	1.00	16.38	G	C
	ATOM	9926	OD1	ASN	G	719	-25.321	64.824	31.654	1.00	16.08	G	O
	ATOM	9927	ND2	ASN	G	719	-24.337	65.075	33.660	1.00	18.29	G	N
	ATOM	9928	C	ASN	G	719	-22.065	63.052	31.304	1.00	10.92	G	C
	ATOM	9929	O	ASN	G	719	-21.769	64.061	31.935	1.00	13.07	G	O
15	ATOM	9930	N	VAL	G	720	-21.162	62.333	30.649	1.00	11.71	G	N
	ATOM	9931	CA	VAL	G	720	-19.753	62.739	30.576	1.00	11.80	G	C
	ATOM	9932	CB	VAL	G	720	-18.803	61.501	30.627	1.00	13.89	G	C
	ATOM	9933	CG1	VAL	G	720	-17.369	61.921	30.325	1.00	12.25	G	C
	ATOM	9934	CG2	VAL	G	720	-18.886	60.825	32.004	1.00	8.57	G	C
20	ATOM	9935	C	VAL	G	720	-19.605	63.439	29.211	1.00	13.42	G	C
	ATOM	9936	O	VAL	G	720	-20.014	62.888	28.185	1.00	13.33	G	O
	ATOM	9937	N	ALA	G	721	-19.029	64.638	29.196	1.00	11.68	G	N
	ATOM	9938	CA	ALA	G	721	-18.861	65.404	27.960	1.00	9.54	G	C
	ATOM	9939	CB	ALA	G	721	-18.280	66.780	28.289	1.00	6.38	G	C
25	ATOM	9940	C	ALA	G	721	-17.970	64.691	26.944	1.00	10.83	G	C
	ATOM	9941	O	ALA	G	721	-16.969	64.081	27.311	1.00	11.68	G	O
	ATOM	9942	N	GLN	G	722	-18.322	64.767	25.663	1.00	11.61	G	N
	ATOM	9943	CA	GLN	G	722	-17.492	64.129	24.641	1.00	10.63	G	C
	ATOM	9944	CB	GLN	G	722	-18.226	64.099	23.295	1.00	12.96	G	C
	ATOM	9945	CG	GLN	G	722	-19.251	62.957	23.181	1.00	10.93	G	C
30	ATOM	9946	CD	GLN	G	722	-18.614	61.570	23.248	1.00	14.88	G	C
	ATOM	9947	OE1	GLN	G	722	-18.657	60.812	22.285	1.00	20.15	G	O
	ATOM	9948	NE2	GLN	G	722	-18.027	61.234	24.379	1.00	14.65	G	N
	ATOM	9949	C	GLN	G	722	-16.167	64.897	24.544	1.00	9.28	G	C
35	ATOM	9950	O	GLN	G	722	-15.136	64.340	24.175	1.00	9.25	G	O
	ATOM	9951	N	ILE	G	723	-16.192	66.178	24.900	1.00	10.74	G	N
	ATOM	9952	CA	ILE	G	723	-14.967	66.985	24.903	1.00	13.38	G	C
	ATOM	9953	CB	ILE	G	723	-15.269	68.436	25.353	1.00	13.77	G	C
	ATOM	9954	CG2	ILE	G	723	-13.976	69.149	25.768	1.00	13.90	G	C
	ATOM	9955	CG1	ILE	G	723	-15.958	69.198	24.220	1.00	13.29	G	C
40	ATOM	9956	CD1	ILE	G	723	-16.480	70.570	24.641	1.00	7.45	G	C
	ATOM	9957	C	ILE	G	723	-13.974	66.348	25.896	1.00	12.58	G	C
	ATOM	9958	O	ILE	G	723	-12.772	66.237	25.634	1.00	13.21	G	O
	ATOM	9959	N	ARG	G	724	-14.501	65.910	27.035	1.00	11.00	G	N
45	ATOM	9960	CA	ARG	G	724	-13.675	65.292	28.058	1.00	10.07	G	C
	ATOM	9961	CB	ARG	G	724	-14.513	65.082	29.344	1.00	12.51	G	C
	ATOM	9962	CG	ARG	G	724	-13.740	64.518	30.562	1.00	10.95	G	C
	ATOM	9963	CD	ARG	G	724	-12.461	65.325	30.887	1.00	9.49	G	C
	ATOM	9964	NE	ARG	G	724	-12.787	66.629	31.444	1.00	12.47	G	N
	ATOM	9965	CZ	ARG	G	724	-13.052	66.858	32.729	1.00	14.28	G	C
50	ATOM	9966	NH1	ARG	G	724	-13.024	65.861	33.608	1.00	12.40	G	N
	ATOM	9967	NH2	ARG	G	724	-13.386	68.079	33.131	1.00	11.04	G	N
	ATOM	9968	C	ARG	G	724	-13.130	63.980	27.520	1.00	8.10	G	C
	ATOM	9969	O	ARG	G	724	-11.943	63.689	27.667	1.00	8.30	G	O
55	ATOM	9970	N	MET	G	725	-13.986	63.185	26.886	1.00	6.59	G	N
	ATOM	9971	CA	MET	G	725	-13.526	61.907	26.325	1.00	8.68	G	C
	ATOM	9972	CB	MET	G	725	-14.688	61.160	25.673	1.00	6.42	G	C
	ATOM	9973	CG	MET	G	725	-15.779	60.734	26.626	1.00	8.06	G	C
	ATOM	9974	SD	MET	G	725	-15.194	59.528	27.831	1.00	14.99	G	S
60	ATOM	9975	CE	MET	G	725	-14.540	58.198	26.775	1.00	10.56	G	C
	ATOM	9976	C	MET	G	725	-12.410	62.109	25.281	1.00	9.71	G	C
	ATOM	9977	O	MET	G	725	-11.403	61.396	25.293	1.00	10.44	G	O
	ATOM	9978	N	ALA	G	726	-12.593	63.088	24.393	1.00	10.50	G	N
	ATOM	9979	CA	ALA	G	726	-11.617	63.378	23.341	1.00	13.02	G	C
65	ATOM	9980	CB	ALA	G	726	-12.164	64.438	22.374	1.00	11.19	G	C
	ATOM	9981	C	ALA	G	726	-10.312	63.850	23.945	1.00	13.32	G	C
	ATOM	9982	O	ALA	G	726	-9.229	63.425	23.526	1.00	14.45	G	O
	ATOM	9983	N	TYR	G	727	-10.407	64.736	24.933	1.00	13.17	G	N
	ATOM	9984	CA	TYR	G	727	-9.202	65.229	25.583	1.00	10.43	G	C

	ATOM	9985	CB	TYR	G	727	-9.546	66.245	26.688	1.00	8.51	G	C
	ATOM	9986	CG	TYR	G	727	-8.322	66.615	27.508	1.00	12.18	G	C
	ATOM	9987	CD1	TYR	G	727	-8.018	65.936	28.700	1.00	9.05	G	C
	ATOM	9988	CE1	TYR	G	727	-6.850	66.231	29.424	1.00	11.54	G	C
5	ATOM	9989	CD2	TYR	G	727	-7.430	67.599	27.065	1.00	8.96	G	C
	ATOM	9990	CE2	TYR	G	727	-6.257	67.901	27.791	1.00	11.14	G	C
	ATOM	9991	CZ	TYR	G	727	-5.979	67.208	28.968	1.00	11.33	G	C
	ATOM	9992	OH	TYR	G	727	-4.851	67.497	29.707	1.00	10.69	G	O
	ATOM	9993	C	TYR	G	727	-8.366	64.081	26.183	1.00	10.93	G	C
10	ATOM	9994	O	TYR	G	727	-7.165	64.000	25.948	1.00	9.06	G	O
	ATOM	9995	N	ARG	G	728	-8.997	63.188	26.942	1.00	8.10	G	N
	ATOM	9996	CA	ARG	G	728	-8.265	62.105	27.562	1.00	7.04	G	C
	ATOM	9997	CB	ARG	G	728	-9.182	61.291	28.484	1.00	9.95	G	C
	ATOM	9998	CG	ARG	G	728	-9.836	62.072	29.619	1.00	13.03	G	C
15	ATOM	9999	CD	ARG	G	728	-8.832	62.447	30.685	1.00	11.33	G	C
	ATOM	10000	NE	ARG	G	728	-9.496	62.904	31.904	1.00	13.59	G	N
	ATOM	10001	CZ	ARG	G	728	-8.880	63.551	32.886	1.00	13.86	G	C
	ATOM	10002	NH1	ARG	G	728	-7.587	63.819	32.788	1.00	12.40	G	N
	ATOM	10003	NH2	ARG	G	728	-9.549	63.914	33.977	1.00	15.44	G	N
20	ATOM	10004	C	ARG	G	728	-7.656	61.160	26.544	1.00	11.89	G	C
	ATOM	10005	O	ARG	G	728	-6.502	60.733	26.670	1.00	9.94	G	O
	ATOM	10006	N	TYR	G	729	-8.448	60.804	25.537	1.00	13.31	G	N
	ATOM	10007	CA	TYR	G	729	-7.983	59.864	24.528	1.00	11.97	G	C
	ATOM	10008	CB	TYR	G	729	-9.118	59.573	23.558	1.00	11.15	G	C
25	ATOM	10009	CG	TYR	G	729	-8.809	58.462	22.595	1.00	16.65	G	C
	ATOM	10010	CD1	TYR	G	729	-8.395	57.206	23.049	1.00	14.01	G	C
	ATOM	10011	CE1	TYR	G	729	-8.133	56.176	22.153	1.00	17.74	G	C
	ATOM	10012	CD2	TYR	G	729	-8.950	58.663	21.214	1.00	17.38	G	C
	ATOM	10013	CE2	TYR	G	729	-8.693	57.647	20.311	1.00	19.49	G	C
30	ATOM	10014	CZ	TYR	G	729	-8.287	56.407	20.782	1.00	22.16	G	C
	ATOM	10015	OH	TYR	G	729	-8.046	55.413	19.864	1.00	24.90	G	O
	ATOM	10016	C	TYR	G	729	-6.766	60.399	23.808	1.00	9.90	G	C
	ATOM	10017	O	TYR	G	729	-5.752	59.713	23.684	1.00	10.97	G	O
	ATOM	10018	N	GLU	G	730	-6.860	61.648	23.366	1.00	12.97	G	N
35	ATOM	10019	CA	GLU	G	730	-5.762	62.287	22.653	1.00	12.61	G	C
	ATOM	10020	CB	GLU	G	730	-6.184	63.675	22.139	1.00	11.70	G	C
	ATOM	10021	CG	GLU	G	730	-7.398	63.629	21.224	1.00	11.91	G	C
	ATOM	10022	CD	GLU	G	730	-7.951	65.000	20.927	1.00	14.81	G	C
	ATOM	10023	OE1	GLU	G	730	-9.020	65.077	20.285	1.00	15.61	G	O
40	ATOM	10024	OE2	GLU	G	730	-7.321	66.000	21.339	1.00	16.25	G	O
	ATOM	10025	C	GLU	G	730	-4.517	62.414	23.510	1.00	12.63	G	C
	ATOM	10026	O	GLU	G	730	-3.415	62.100	23.045	1.00	15.18	G	O
	ATOM	10027	N	THR	G	731	-4.659	62.856	24.760	1.00	11.96	G	N
	ATOM	10028	CA	THR	G	731	-3.452	62.994	25.566	1.00	12.57	G	C
45	ATOM	10029	CB	THR	G	731	-3.657	63.992	26.777	1.00	13.78	G	C
	ATOM	10030	OG1	THR	G	731	-3.593	63.305	28.020	1.00	21.70	G	O
	ATOM	10031	CG2	THR	G	731	-4.935	64.728	26.661	1.00	2.04	G	C
	ATOM	10032	C	THR	G	731	-2.845	61.635	25.966	1.00	10.78	G	C
	ATOM	10033	O	THR	G	731	-1.635	61.511	26.117	1.00	12.54	G	O
50	ATOM	10034	N	TRP	G	732	-3.673	60.602	26.067	1.00	10.98	G	N
	ATOM	10035	CA	TRP	G	732	-3.171	59.259	26.362	1.00	10.01	G	C
	ATOM	10036	CB	TRP	G	732	-4.343	58.348	26.691	1.00	8.39	G	C
	ATOM	10037	CG	TRP	G	732	-3.998	56.928	27.010	1.00	6.61	G	C
	ATOM	10038	CD2	TRP	G	732	-4.860	55.798	26.853	1.00	7.81	G	C
55	ATOM	10039	CE2	TRP	G	732	-4.189	54.678	27.399	1.00	12.02	G	C
	ATOM	10040	CE3	TRP	G	732	-6.141	55.624	26.311	1.00	10.66	G	C
	ATOM	10041	CD1	TRP	G	732	-2.860	56.464	27.614	1.00	8.49	G	C
	ATOM	10042	NE1	TRP	G	732	-2.965	55.110	27.853	1.00	7.89	G	N
	ATOM	10043	CZ2	TRP	G	732	-4.762	53.396	27.419	1.00	12.22	G	C
60	ATOM	10044	CZ3	TRP	G	732	-6.708	54.355	26.331	1.00	13.83	G	C
	ATOM	10045	CH2	TRP	G	732	-6.019	53.258	26.884	1.00	13.97	G	C
	ATOM	10046	C	TRP	G	732	-2.412	58.720	25.137	1.00	11.05	G	C
	ATOM	10047	O	TRP	G	732	-1.302	58.190	25.255	1.00	13.83	G	O
	ATOM	10048	N	CYS	G	733	-3.003	58.855	23.952	1.00	14.76	G	N
65	ATOM	10049	CA	CYS	G	733	-2.339	58.373	22.723	1.00	14.92	G	C
	ATOM	10050	CB	CYS	G	733	-3.251	58.579	21.508	1.00	11.46	G	C
	ATOM	10051	SG	CYS	G	733	-4.677	57.453	21.462	1.00	19.94	G	S
	ATOM	10052	C	CYS	G	733	-1.009	59.113	22.515	1.00	14.86	G	C

	ATOM	10053	O	CYS	G	733	0.003	58.518	22.138	1.00	14.72	G	O
	ATOM	10054	N	TYR	G	734	-1.005	60.413	22.782	1.00	13.65	G	N
	ATOM	10055	CA	TYR	G	734	0.212	61.185	22.617	1.00	12.34	G	C
5	ATOM	10056	CB	TYR	G	734	-0.044	62.628	23.028	1.00	15.57	G	C
	ATOM	10057	CG	TYR	G	734	1.061	63.570	22.622	1.00	19.60	G	C
	ATOM	10058	CD1	TYR	G	734	1.012	64.254	21.415	1.00	19.30	G	C
	ATOM	10059	CE1	TYR	G	734	2.017	65.132	21.051	1.00	23.67	G	C
	ATOM	10060	CD2	TYR	G	734	2.152	63.787	23.454	1.00	24.34	G	C
10	ATOM	10061	CE2	TYR	G	734	3.168	64.665	23.102	1.00	24.41	G	C
	ATOM	10062	CZ	TYR	G	734	3.092	65.336	21.898	1.00	25.99	G	C
	ATOM	10063	OH	TYR	G	734	4.085	66.226	21.555	1.00	29.88	G	O
	ATOM	10064	C	TYR	G	734	1.374	60.615	23.426	1.00	14.40	G	C
	ATOM	10065	O	TYR	G	734	2.487	60.451	22.915	1.00	13.12	G	O
15	ATOM	10066	N	GLU	G	735	1.122	60.298	24.694	1.00	13.52	G	N
	ATOM	10067	CA	GLU	G	735	2.180	59.771	25.538	1.00	13.19	G	C
	ATOM	10068	CB	GLU	G	735	1.679	59.625	26.983	1.00	15.67	G	C
	ATOM	10069	CG	GLU	G	735	1.333	60.945	27.689	1.00	14.56	G	C
	ATOM	10070	CD	GLU	G	735	2.487	61.950	27.700	1.00	15.36	G	C
20	ATOM	10071	OE1	GLU	G	735	3.583	61.603	28.199	1.00	14.88	G	O
	ATOM	10072	OE2	GLU	G	735	2.293	63.091	27.208	1.00	12.38	G	O
	ATOM	10073	C	GLU	G	735	2.712	58.426	25.029	1.00	14.61	G	C
	ATOM	10074	O	GLU	G	735	3.925	58.176	25.041	1.00	16.08	G	O
	ATOM	10075	N	LEU	G	736	1.808	57.553	24.599	1.00	14.38	G	N
25	ATOM	10076	CA	LEU	G	736	2.196	56.243	24.085	1.00	15.44	G	C
	ATOM	10077	CB	LEU	G	736	0.942	55.395	23.798	1.00	13.98	G	C
	ATOM	10078	CG	LEU	G	736	0.157	54.917	25.033	1.00	14.33	G	C
	ATOM	10079	CD1	LEU	G	736	-1.250	54.475	24.625	1.00	7.86	G	C
	ATOM	10080	CD2	LEU	G	736	0.923	53.784	25.724	1.00	10.74	G	C
30	ATOM	10081	C	LEU	G	736	3.020	56.418	22.807	1.00	17.62	G	C
	ATOM	10082	O	LEU	G	736	4.009	55.717	22.576	1.00	19.18	G	O
	ATOM	10083	N	ASN	G	737	2.616	57.373	21.983	1.00	18.61	G	N
	ATOM	10084	CA	ASN	G	737	3.309	57.616	20.732	1.00	20.48	G	C
	ATOM	10085	CB	ASN	G	737	2.562	58.646	19.902	1.00	20.96	G	C
35	ATOM	10086	CG	ASN	G	737	3.086	58.721	18.512	1.00	23.37	G	C
	ATOM	10087	OD1	ASN	G	737	2.970	57.768	17.754	1.00	27.80	G	O
	ATOM	10088	ND2	ASN	G	737	3.687	59.844	18.165	1.00	23.43	G	N
	ATOM	10089	C	ASN	G	737	4.730	58.091	20.950	1.00	22.07	G	C
	ATOM	10090	O	ASN	G	737	5.627	57.785	20.158	1.00	23.00	G	O
40	ATOM	10091	N	LEU	G	738	4.940	58.846	22.021	1.00	19.93	G	N
	ATOM	10092	CA	LEU	G	738	6.277	59.339	22.322	1.00	20.06	G	C
	ATOM	10093	CB	LEU	G	738	6.280	60.111	23.636	1.00	18.80	G	C
	ATOM	10094	CG	LEU	G	738	5.643	61.498	23.583	1.00	21.53	G	C
	ATOM	10095	CD1	LEU	G	738	5.684	62.137	24.981	1.00	17.94	G	C
45	ATOM	10096	CD2	LEU	G	738	6.365	62.355	22.553	1.00	14.67	G	C
	ATOM	10097	C	LEU	G	738	7.235	58.169	22.442	1.00	19.65	G	C
	ATOM	10098	O	LEU	G	738	8.378	58.237	22.002	1.00	20.31	G	O
	ATOM	10099	N	ILE	G	739	6.760	57.090	23.043	1.00	18.68	G	N
	ATOM	10100	CA	ILE	G	739	7.591	55.920	23.225	1.00	18.09	G	C
50	ATOM	10101	CB	ILE	G	739	6.929	54.925	24.195	1.00	19.51	G	C
	ATOM	10102	CG2	ILE	G	739	7.706	53.595	24.195	1.00	13.88	G	C
	ATOM	10103	CG1	ILE	G	739	6.860	55.546	25.598	1.00	19.02	G	C
	ATOM	10104	CD1	ILE	G	739	5.722	54.996	26.449	1.00	19.46	G	C
	ATOM	10105	C	ILE	G	739	7.836	55.230	21.893	1.00	19.36	G	C
55	ATOM	10106	O	ILE	G	739	8.941	54.783	21.614	1.00	18.81	G	O
	ATOM	10107	N	ALA	G	740	6.795	55.139	21.080	1.00	20.33	G	N
	ATOM	10108	CA	ALA	G	740	6.906	54.501	19.780	1.00	20.82	G	C
	ATOM	10109	CB	ALA	G	740	5.544	54.501	19.080	1.00	21.28	G	C
	ATOM	10110	C	ALA	G	740	7.928	55.250	18.940	1.00	21.52	G	C
60	ATOM	10111	O	ALA	G	740	8.801	54.635	18.330	1.00	21.19	G	O
	ATOM	10112	N	GLU	G	741	7.830	56.577	18.920	1.00	19.46	G	N
	ATOM	10113	CA	GLU	G	741	8.750	57.380	18.127	1.00	22.01	G	C
	ATOM	10114	CB	GLU	G	741	8.338	58.849	18.160	1.00	22.59	G	C
	ATOM	10115	CG	GLU	G	741	6.937	59.099	17.646	1.00	33.17	G	C
	ATOM	10116	CD	GLU	G	741	6.873	59.208	16.137	1.00	37.03	G	C
65	ATOM	10117	OE1	GLU	G	741	5.830	58.824	15.558	1.00	40.10	G	O
	ATOM	10118	OE2	GLU	G	741	7.868	59.678	15.531	1.00	41.93	G	O
	ATOM	10119	C	GLU	G	741	10.185	57.238	18.625	1.00	23.58	G	C
	ATOM	10120	O	GLU	G	741	11.133	57.208	17.844	1.00	23.01	G	O

	ATOM	10121	N	GLY	G	742	10.353	57.151	19.935	1.00	22.79	G	N
	ATOM	10122	CA	GLY	G	742	11.690	57.006	20.460	1.00	23.03	G	C
	ATOM	10123	C	GLY	G	742	12.321	55.701	20.016	1.00	25.59	G	C
	ATOM	10124	O	GLY	G	742	13.535	55.560	20.043	1.00	28.18	G	O
5	ATOM	10125	N	LEU	G	743	11.496	54.748	19.596	1.00	26.93	G	N
	ATOM	10126	CA	LEU	G	743	11.960	53.434	19.165	1.00	27.44	G	C
	ATOM	10127	CB	LEU	G	743	11.005	52.361	19.687	1.00	24.22	G	C
	ATOM	10128	CG	LEU	G	743	11.306	51.643	21.006	1.00	29.61	G	C
	ATOM	10129	CD1	LEU	G	743	12.252	52.472	21.872	1.00	29.88	G	C
10	ATOM	10130	CD2	LEU	G	743	9.993	51.368	21.738	1.00	25.19	G	C
	ATOM	10131	C	LEU	G	743	12.043	53.293	17.648	1.00	31.71	G	C
	ATOM	10132	O	LEU	G	743	12.690	52.378	17.141	1.00	33.69	G	O
	ATOM	10133	N	LYS	G	744	11.373	54.196	16.939	1.00	34.36	G	N
	ATOM	10134	CA	LYS	G	744	11.302	54.197	15.477	1.00	37.49	G	C
15	ATOM	10135	CB	LYS	G	744	10.516	55.418	15.013	1.00	35.07	G	C
	ATOM	10136	CG	LYS	G	744	9.235	55.103	14.324	1.00	32.71	G	C
	ATOM	10137	CD	LYS	G	744	8.990	56.136	13.268	1.00	34.81	G	C
	ATOM	10138	CE	LYS	G	744	7.626	56.745	13.410	1.00	35.75	G	C
	ATOM	10139	NZ	LYS	G	744	7.208	57.276	12.091	1.00	37.09	G	N
20	ATOM	10140	C	LYS	G	744	12.619	54.161	14.713	1.00	40.95	G	C
	ATOM	10141	O	LYS	G	744	13.593	54.816	15.090	1.00	41.20	G	O
	ATOM	10142	N	SER	G	745	12.625	53.396	13.623	1.00	46.10	G	N
	ATOM	10143	CA	SER	G	745	13.795	53.264	12.752	1.00	52.26	G	C
	ATOM	10144	CB	SER	G	745	14.931	52.544	13.480	1.00	53.62	G	C
25	ATOM	10145	OG	SER	G	745	16.172	53.153	13.178	1.00	56.29	G	O
	ATOM	10146	C	SER	G	745	13.450	52.503	11.465	1.00	55.42	G	C
	ATOM	10147	O	SER	G	745	13.820	51.304	11.361	1.00	57.88	G	O
	ATOM	10148	OT	SER	G	745	12.815	53.122	10.574	1.00	56.30	G	O
	ATOM	10149	ZN	ZN	Y	895	25.898	63.834	54.211	1.00	14.03	Y	
30	ATOM	10150	ZN	ZN	Z	896	-10.123	48.415	52.360	1.00	17.02	Z	
	ATOM	10151	OW	HOH	W	96	2.967	50.679	48.947	1.00	18.78	W	O
	ATOM	10152	OW	HOH	W	97	15.078	55.875	57.495	1.00	14.43	W	O
	ATOM	10153	OW	HOH	W	98	12.697	60.944	53.256	1.00	31.73	W	O
	ATOM	10154	OW	HOH	W	99	15.368	51.021	53.671	1.00	29.98	W	O
35	ATOM	10155	OW	HOH	W	100	6.199	47.166	53.074	1.00	33.34	W	O
	ATOM	10156	OW	HOH	W	101	11.852	58.323	53.365	1.00	29.21	W	O
	ATOM	10157	OW	HOH	W	102	3.937	54.692	53.254	1.00	28.79	W	O
	ATOM	10158	OW	HOH	W	103	10.677	55.317	55.973	1.00	42.20	W	O
	ATOM	10159	OW	HOH	W	104	-27.334	66.640	31.829	1.00	8.14	W	O
40	ATOM	10160	OW	HOH	W	105	15.630	71.112	71.282	1.00	8.04	W	O
	ATOM	10161	OW	HOH	W	106	-17.468	55.319	42.651	1.00	11.96	W	O
	ATOM	10162	OW	HOH	W	107	19.103	76.038	57.016	1.00	10.32	W	O
	ATOM	10163	OW	HOH	W	108	-21.578	46.036	42.064	1.00	10.18	W	O
	ATOM	10164	OW	HOH	W	109	22.544	71.730	53.905	1.00	8.44	W	O
45	ATOM	10165	OW	HOH	W	110	35.093	65.495	64.390	1.00	16.20	W	O
	ATOM	10166	OW	HOH	W	111	-22.112	60.161	23.355	1.00	15.28	W	O
	ATOM	10167	OW	HOH	W	112	-17.844	42.922	42.265	1.00	12.38	W	O
	ATOM	10168	OW	HOH	W	113	-8.505	60.904	35.216	1.00	10.12	W	O
	ATOM	10169	OW	HOH	W	114	19.352	65.825	52.028	1.00	10.91	W	O
50	ATOM	10170	OW	HOH	W	115	21.384	59.242	54.683	1.00	12.32	W	O
	ATOM	10171	OW	HOH	W	116	-18.441	74.733	48.908	1.00	14.76	W	O
	ATOM	10172	OW	HOH	W	117	11.783	70.552	75.613	1.00	16.21	W	O
	ATOM	10173	OW	HOH	W	118	52.372	54.088	58.694	1.00	14.36	W	O
	ATOM	10174	OW	HOH	W	119	26.707	63.603	63.140	1.00	8.31	W	O
55	ATOM	10175	OW	HOH	W	120	35.558	70.382	64.698	1.00	8.10	W	O
	ATOM	10176	OW	HOH	W	121	14.379	70.967	53.856	1.00	15.15	W	O
	ATOM	10177	OW	HOH	W	122	-9.271	45.899	46.567	1.00	10.12	W	O
	ATOM	10178	OW	HOH	W	123	13.759	84.960	73.175	1.00	26.19	W	O
	ATOM	10179	OW	HOH	W	124	8.837	73.580	83.658	1.00	17.10	W	O
60	ATOM	10180	OW	HOH	W	125	-4.402	54.667	36.009	1.00	11.86	W	O
	ATOM	10181	OW	HOH	W	126	1.402	68.680	21.627	1.00	13.79	W	O
	ATOM	10182	OW	HOH	W	127	-14.370	61.855	49.724	1.00	12.92	W	O
	ATOM	10183	OW	HOH	W	128	32.642	69.583	82.451	1.00	18.02	W	O
	ATOM	10184	OW	HOH	W	129	6.140	58.786	26.832	1.00	18.45	W	O
65	ATOM	10185	OW	HOH	W	130	-16.581	35.960	38.113	1.00	14.73	W	O
	ATOM	10186	OW	HOH	W	131	35.761	85.732	71.836	1.00	21.86	W	O
	ATOM	10187	OW	HOH	W	132	-28.815	51.230	38.551	1.00	17.13	W	O
	ATOM	10188	OW	HOH	W	133	25.932	73.624	64.086	1.00	17.66	W	O

	ATOM	10189	OW	HOH	W	134	-7.596	61.886	52.676	1.00	12.08	W	O
	ATOM	10190	OW	HOH	W	135	-6.958	59.266	30.977	1.00	10.85	W	O
	ATOM	10191	OW	HOH	W	136	17.451	63.887	70.465	1.00	9.03	W	O
	ATOM	10192	OW	HOH	W	137	28.244	77.532	71.624	1.00	15.16	W	O
5	ATOM	10193	OW	HOH	W	138	-12.259	78.898	33.273	1.00	30.07	W	O
	ATOM	10194	OW	HOH	W	139	-6.099	46.573	33.828	1.00	19.36	W	O
	ATOM	10195	OW	HOH	W	140	-13.413	56.393	52.588	1.00	5.38	W	O
	ATOM	10196	OW	HOH	W	141	-22.006	39.030	42.479	1.00	17.55	W	O
	ATOM	10197	OW	HOH	W	142	-13.144	68.297	18.477	1.00	14.72	W	O
10	ATOM	10198	OW	HOH	W	143	-5.390	67.267	22.969	1.00	11.97	W	O
	ATOM	10199	OW	HOH	W	144	10.290	55.605	40.299	1.00	12.62	W	O
	ATOM	10200	OW	HOH	W	145	-21.756	56.047	35.118	1.00	15.46	W	O
	ATOM	10201	OW	HOH	W	146	-4.003	37.477	50.604	1.00	10.57	W	O
	ATOM	10202	OW	HOH	W	147	-17.240	71.673	33.443	1.00	12.30	W	O
15	ATOM	10203	OW	HOH	W	148	-21.742	22.615	48.272	1.00	8.65	W	O
	ATOM	10204	OW	HOH	W	149	-6.861	54.611	54.649	1.00	10.36	W	O
	ATOM	10205	OW	HOH	W	150	-17.199	39.171	58.479	1.00	19.72	W	O
	ATOM	10206	OW	HOH	W	151	-0.085	64.096	26.343	1.00	8.30	W	O
	ATOM	10207	OW	HOH	W	152	-8.692	43.188	27.993	1.00	23.56	W	O
20	ATOM	10208	OW	HOH	W	153	27.085	61.615	60.095	1.00	16.91	W	O
	ATOM	10209	OW	HOH	W	154	31.582	62.725	50.060	1.00	21.48	W	O
	ATOM	10210	OW	HOH	W	155	7.217	59.167	79.512	1.00	14.32	W	O
	ATOM	10211	OW	HOH	W	156	-29.374	31.227	39.099	1.00	20.43	W	O
	ATOM	10212	OW	HOH	W	157	29.295	75.616	39.592	1.00	19.82	W	O
25	ATOM	10213	OW	HOH	W	158	-10.474	47.832	43.646	1.00	9.21	W	O
	ATOM	10214	OW	HOH	W	159	37.529	72.123	65.418	1.00	13.05	W	O
	ATOM	10215	OW	HOH	W	160	43.919	66.262	44.512	1.00	13.43	W	O
	ATOM	10216	OW	HOH	W	161	28.753	76.295	45.996	1.00	19.73	W	O
	ATOM	10217	OW	HOH	W	162	51.509	55.360	54.060	1.00	21.46	W	O
30	ATOM	10218	OW	HOH	W	163	8.400	81.685	57.569	1.00	19.28	W	O
	ATOM	10219	OW	HOH	W	164	18.701	67.012	57.584	1.00	16.02	W	O
	ATOM	10220	OW	HOH	W	165	-31.811	37.710	61.624	1.00	21.61	W	O
	ATOM	10221	OW	HOH	W	166	6.297	53.980	66.212	1.00	15.94	W	O
	ATOM	10222	OW	HOH	W	167	3.151	69.388	85.101	1.00	21.34	W	O
35	ATOM	10223	OW	HOH	W	168	4.645	63.949	40.103	1.00	32.28	W	O
	ATOM	10224	OW	HOH	W	169	-3.966	65.784	31.720	1.00	22.68	W	O
	ATOM	10225	OW	HOH	W	170	22.198	73.790	74.708	1.00	12.30	W	O
	ATOM	10226	OW	HOH	W	171	34.954	45.014	74.822	1.00	34.82	W	O
	ATOM	10227	OW	HOH	W	172	19.670	56.775	90.866	1.00	25.89	W	O
40	ATOM	10228	OW	HOH	W	173	-24.262	45.751	41.348	1.00	13.40	W	O
	ATOM	10229	OW	HOH	W	174	47.695	56.621	25.265	1.00	40.94	W	O
	ATOM	10230	OW	HOH	W	175	-24.212	39.616	30.689	1.00	14.92	W	O
	ATOM	10231	OW	HOH	W	176	42.734	69.560	61.971	1.00	20.79	W	O
	ATOM	10232	OW	HOH	W	177	39.424	59.877	68.626	1.00	12.09	W	O
45	ATOM	10233	OW	HOH	W	178	8.841	71.331	74.954	1.00	15.39	W	O
	ATOM	10234	OW	HOH	W	179	19.092	71.818	80.312	1.00	14.76	W	O
	ATOM	10235	OW	HOH	W	180	-28.380	52.770	45.177	1.00	24.13	W	O
	ATOM	10236	OW	HOH	W	181	25.089	80.412	83.182	1.00	20.73	W	O
	ATOM	10237	OW	HOH	W	182	40.709	44.145	48.184	1.00	20.44	W	O
50	ATOM	10238	OW	HOH	W	183	18.662	69.045	73.736	1.00	21.84	W	O
	ATOM	10239	OW	HOH	W	184	13.378	79.577	88.068	1.00	22.10	W	O
	ATOM	10240	OW	HOH	W	185	33.184	76.581	52.007	1.00	37.26	W	O
	ATOM	10241	OW	HOH	W	186	-24.867	67.145	24.872	1.00	17.27	W	O
	ATOM	10242	OW	HOH	W	187	45.245	63.331	38.115	1.00	28.20	W	O
55	ATOM	10243	OW	HOH	W	188	-5.305	63.209	30.923	1.00	15.98	W	O
	ATOM	10244	OW	HOH	W	189	-1.072	46.722	68.742	1.00	32.07	W	O
	ATOM	10245	OW	HOH	W	190	11.532	75.187	48.802	1.00	23.83	W	O
	ATOM	10246	OW	HOH	W	191	-25.624	40.242	45.176	1.00	14.50	W	O
	ATOM	10247	OW	HOH	W	192	-32.246	54.134	33.180	1.00	32.39	W	O
60	ATOM	10248	OW	HOH	W	193	-19.991	54.856	27.900	1.00	15.83	W	O
	ATOM	10249	OW	HOH	W	194	28.761	68.722	36.772	1.00	24.74	W	O
	ATOM	10250	OW	HOH	W	195	7.547	67.212	80.327	1.00	12.86	W	O
	ATOM	10251	OW	HOH	W	196	7.571	77.433	80.892	1.00	15.93	W	O
	ATOM	10252	OW	HOH	W	197	22.177	87.372	81.834	1.00	19.83	W	O
65	ATOM	10253	OW	HOH	W	198	34.320	63.481	51.262	1.00	16.96	W	O
	ATOM	10254	OW	HOH	W	199	25.354	74.447	38.457	1.00	29.71	W	O
	ATOM	10255	OW	HOH	W	200	-26.425	51.355	56.553	1.00	16.44	W	O
	ATOM	10256	OW	HOH	W	201	-0.225	68.290	23.403	1.00	21.86	W	O

	ATOM	10257	OW	HOH	W	202	-10.932	37.096	34.847	1.00	14.74	W	O
	ATOM	10258	OW	HOH	W	203	-19.105	47.355	24.229	1.00	20.65	W	O
	ATOM	10259	OW	HOH	W	204	-3.728	52.280	71.587	1.00	27.37	W	O
5	ATOM	10260	OW	HOH	W	205	24.395	59.505	72.901	1.00	19.64	W	O
	ATOM	10261	OW	HOH	W	206	21.221	68.818	80.002	1.00	21.74	W	O
	ATOM	10262	OW	HOH	W	207	20.510	55.549	37.333	1.00	32.61	W	O
	ATOM	10263	OW	HOH	W	208	33.152	74.795	55.318	1.00	27.55	W	O
	ATOM	10264	OW	HOH	W	209	-35.017	37.479	-58.269	1.00	-17.44	W	O
10	ATOM	10265	OW	HOH	W	210	29.415	80.601	31.418	1.00	21.97	W	O
	ATOM	10266	OW	HOH	W	211	36.903	79.091	68.321	1.00	18.24	W	O
	ATOM	10267	OW	HOH	W	212	-29.336	25.492	49.863	1.00	22.56	W	O
	ATOM	10268	OW	HOH	W	213	40.702	55.873	50.476	1.00	14.27	W	O
	ATOM	10269	OW	HOH	W	214	12.389	87.793	57.749	1.00	24.18	W	O
15	ATOM	10270	OW	HOH	W	215	-21.091	55.021	60.742	1.00	13.33	W	O
	ATOM	10271	OW	HOH	W	216	9.247	71.708	61.523	1.00	10.93	W	O
	ATOM	10272	OW	HOH	W	217	30.188	89.466	68.858	1.00	27.66	W	O
	ATOM	10273	OW	HOH	W	218	30.347	78.601	72.233	1.00	15.25	W	O
	ATOM	10274	OW	HOH	W	219	-0.848	66.047	24.402	1.00	20.24	W	O
20	ATOM	10275	OW	HOH	W	220	-5.428	69.627	24.516	1.00	16.34	W	O
	ATOM	10276	OW	HOH	W	221	-10.911	48.435	55.939	1.00	27.19	W	O
	ATOM	10277	OW	HOH	W	222	21.752	49.128	80.145	1.00	14.92	W	O
	ATOM	10278	OW	HOH	W	223	-8.338	50.109	31.764	1.00	18.48	W	O
	ATOM	10279	OW	HOH	W	224	-21.211	30.155	58.331	1.00	27.02	W	O
25	ATOM	10280	OW	HOH	W	225	-9.249	57.251	33.007	1.00	22.87	W	O
	ATOM	10281	OW	HOH	W	226	33.370	61.918	66.266	1.00	16.25	W	O
	ATOM	10282	OW	HOH	W	227	47.402	56.019	67.430	1.00	21.12	W	O
	ATOM	10283	OW	HOH	W	228	-33.250	56.751	34.540	1.00	25.50	W	O
	ATOM	10284	OW	HOH	W	229	-35.702	47.930	48.379	1.00	27.10	W	O
30	ATOM	10285	OW	HOH	W	230	-7.311	55.702	48.806	1.00	16.26	W	O
	ATOM	10286	OW	HOH	W	231	46.425	59.375	36.146	1.00	30.08	W	O
	ATOM	10287	OW	HOH	W	232	-33.660	38.594	64.351	1.00	24.33	W	O
	ATOM	10288	OW	HOH	W	233	16.531	37.171	68.296	1.00	25.49	W	O
	ATOM	10289	OW	HOH	W	234	-21.441	53.346	24.188	1.00	22.36	W	O
35	ATOM	10290	OW	HOH	W	235	-5.431	60.915	29.493	1.00	10.06	W	O
	ATOM	10291	OW	HOH	W	236	-31.633	50.191	36.839	1.00	35.56	W	O
	ATOM	10292	OW	HOH	W	237	-19.185	31.306	56.842	1.00	13.83	W	O
	ATOM	10293	OW	HOH	W	238	35.548	82.385	41.600	1.00	24.54	W	O
	ATOM	10294	OW	HOH	W	239	-20.811	54.465	67.061	1.00	15.36	W	O
40	ATOM	10295	OW	HOH	W	240	6.590	71.573	67.846	1.00	17.11	W	O
	ATOM	10296	OW	HOH	W	241	22.109	58.778	73.929	1.00	11.60	W	O
	ATOM	10297	OW	HOH	W	242	35.167	77.566	50.318	1.00	23.87	W	O
	ATOM	10298	OW	HOH	W	243	4.529	70.148	83.109	1.00	21.13	W	O
	ATOM	10299	OW	HOH	W	244	-2.591	67.794	38.763	1.00	13.45	W	O
45	ATOM	10300	OW	HOH	W	245	-7.607	70.835	25.495	1.00	14.30	W	O
	ATOM	10301	OW	HOH	W	246	-21.277	39.066	31.788	1.00	24.61	W	O
	ATOM	10302	OW	HOH	W	247	40.731	65.711	64.110	1.00	29.98	W	O
	ATOM	10303	OW	HOH	W	248	-27.555	51.436	24.149	1.00	34.70	W	O
	ATOM	10304	OW	HOH	W	249	-23.765	42.109	37.749	1.00	23.56	W	O
50	ATOM	10305	OW	HOH	W	250	-14.529	32.313	55.952	1.00	13.81	W	O
	ATOM	10306	OW	HOH	W	251	-29.486	34.606	32.955	1.00	27.16	W	O
	ATOM	10307	OW	HOH	W	252	-21.455	32.749	68.526	1.00	25.82	W	O
	ATOM	10308	OW	HOH	W	253	8.780	30.499	46.795	1.00	28.37	W	O
	ATOM	10309	OW	HOH	W	254	39.807	62.398	69.472	1.00	24.47	W	O
55	ATOM	10310	OW	HOH	W	255	16.545	75.853	70.012	1.00	36.10	W	O
	ATOM	10311	OW	HOH	W	256	-21.231	58.753	34.556	1.00	10.88	W	O
	ATOM	10312	OW	HOH	W	257	-24.609	55.856	48.311	1.00	23.31	W	O
	ATOM	10313	OW	HOH	W	258	13.222	82.598	72.789	1.00	16.61	W	O
	ATOM	10314	OW	HOH	W	259	15.667	69.012	75.624	1.00	13.01	W	O
60	ATOM	10315	OW	HOH	W	260	49.230	59.563	49.756	1.00	17.94	W	O
	ATOM	10316	OW	HOH	W	261	-15.723	30.180	30.160	1.00	26.01	W	O
	ATOM	10317	OW	HOH	W	262	43.419	56.146	50.603	1.00	16.76	W	O
	ATOM	10318	OW	HOH	W	263	30.441	79.629	58.350	1.00	29.81	W	O
	ATOM	10319	OW	HOH	W	264	-0.262	39.081	59.736	1.00	21.91	W	O
65	ATOM	10320	OW	HOH	W	265	-27.838	59.225	42.281	1.00	30.21	W	O
	ATOM	10321	OW	HOH	W	266	-15.473	50.057	70.006	1.00	25.38	W	O
	ATOM	10322	OW	HOH	W	267	-24.168	55.338	34.299	1.00	11.08	W	O
	ATOM	10323	OW	HOH	W	268	-20.242	35.861	70.543	1.00	23.10	W	O
	ATOM	10324	OW	HOH	W	269	-17.367	74.249	35.175	1.00	26.91	W	O

	ATOM	10325	OW	HOH	W	270	24.426	91.260	75.443	1.00	17.29	W	O
	ATOM	10326	OW	HOH	W	271	28.855	58.822	78.354	1.00	28.88	W	O
	ATOM	10327	OW	HOH	W	272	27.865	75.115	78.727	1.00	12.35	W	O
5	ATOM	10328	OW	HOH	W	273	6.425	68.927	82.204	1.00	17.79	W	O
	ATOM	10329	OW	HOH	W	274	-22.613	50.165	51.382	1.00	20.66	W	O
	ATOM	10330	OW	HOH	W	275	-15.216	24.432	51.991	1.00	23.53	W	O
	ATOM	10331	OW	HOH	W	276	-16.925	38.376	55.676	1.00	20.18	W	O
	ATOM	10332	OW	HOH	W	277	29.417	52.045	55.925	1.00	16.98	W	O
10	ATOM	10333	OW	HOH	W	278	23.931	90.582	61.684	1.00	17.06	W	O
	ATOM	10334	OW	HOH	W	279	-24.115	37.037	62.019	1.00	22.09	W	O
	ATOM	10335	OW	HOH	W	280	-20.199	58.116	20.966	1.00	24.43	W	O
	ATOM	10336	OW	HOH	W	281	24.335	71.502	80.780	1.00	30.24	W	O
	ATOM	10337	OW	HOH	W	282	41.894	68.142	76.210	1.00	21.53	W	O
15	ATOM	10338	OW	HOH	W	283	2.056	67.433	86.781	1.00	34.93	W	O
	ATOM	10339	OW	HOH	W	284	-28.055	51.451	54.175	1.00	25.40	W	O
	ATOM	10340	OW	HOH	W	285	-14.026	17.114	44.504	1.00	24.41	W	O
	ATOM	10341	OW	HOH	W	286	-9.866	69.854	38.686	1.00	31.31	W	O
	ATOM	10342	OW	HOH	W	287	-24.807	51.761	54.347	1.00	33.23	W	O
20	ATOM	10343	OW	HOH	W	288	-13.105	73.251	38.493	1.00	38.55	W	O
	ATOM	10344	OW	HOH	W	289	-24.726	38.607	42.977	1.00	19.51	W	O
	ATOM	10345	OW	HOH	W	290	37.733	85.833	73.274	1.00	33.44	W	O
	ATOM	10346	OW	HOH	W	291	44.480	58.580	49.938	1.00	19.22	W	O
	ATOM	10347	OW	HOH	W	292	25.782	81.788	37.826	1.00	23.48	W	O
25	ATOM	10348	OW	HOH	W	293	-2.536	49.254	55.570	1.00	23.99	W	O
	ATOM	10349	OW	HOH	W	294	-24.942	70.975	23.190	1.00	31.28	W	O
	ATOM	10350	OW	HOH	W	295	-16.326	41.343	61.608	1.00	18.28	W	O
	ATOM	10351	OW	HOH	W	296	40.070	69.373	69.087	1.00	18.72	W	O
	ATOM	10352	OW	HOH	W	297	-29.931	23.684	52.192	1.00	35.88	W	O
30	ATOM	10353	OW	HOH	W	298	21.472	42.076	54.642	1.00	22.72	W	O
	ATOM	10354	OW	HOH	W	299	-24.797	59.681	22.423	1.00	39.13	W	O
	ATOM	10355	OW	HOH	W	300	-15.889	42.025	55.239	1.00	15.73	W	O
	ATOM	10356	OW	HOH	W	301	7.565	80.330	55.164	1.00	34.69	W	O
	ATOM	10357	OW	HOH	W	302	-16.936	36.609	58.716	1.00	24.29	W	O
35	ATOM	10358	OW	HOH	W	303	-14.944	57.876	31.989	1.00	16.40	W	O
	ATOM	10359	OW	HOH	W	304	37.456	77.333	27.476	1.00	35.46	W	O
	ATOM	10360	OW	HOH	W	305	23.038	63.610	74.859	1.00	21.03	W	O
	ATOM	10361	OW	HOH	W	306	39.487	60.590	48.116	1.00	16.15	W	O
	ATOM	10362	OW	HOH	W	307	37.084	83.513	73.320	1.00	25.94	W	O
40	ATOM	10363	OW	HOH	W	308	30.099	64.739	49.179	1.00	29.96	W	O
	ATOM	10364	OW	HOH	W	309	-8.407	27.861	29.257	1.00	27.28	W	O
	ATOM	10365	OW	HOH	W	310	8.718	36.580	51.351	1.00	25.78	W	O
	ATOM	10366	OW	HOH	W	311	21.388	84.869	83.059	1.00	28.13	W	O
	ATOM	10367	OW	HOH	W	312	7.328	79.387	88.001	1.00	24.38	W	O
45	ATOM	10368	OW	HOH	W	313	4.583	58.112	93.906	1.00	38.85	W	O
	ATOM	10369	OW	HOH	W	314	35.963	78.765	52.587	1.00	31.56	W	O
	ATOM	10370	OW	HOH	W	315	33.542	78.312	82.838	1.00	30.67	W	O
	ATOM	10371	OW	HOH	W	316	20.045	39.403	55.038	1.00	19.70	W	O
	ATOM	10372	OW	HOH	W	317	22.707	51.411	51.504	1.00	31.21	W	O
50	ATOM	10373	OW	HOH	W	318	-3.933	47.659	32.653	1.00	13.00	W	O
	ATOM	10374	OW	HOH	W	319	45.313	76.059	62.422	1.00	27.75	W	O
	ATOM	10375	OW	HOH	W	320	9.163	82.802	67.646	1.00	41.84	W	O
	ATOM	10376	OW	HOH	W	321	17.900	71.673	72.540	1.00	17.98	W	O
	ATOM	10377	OW	HOH	W	322	20.699	69.976	74.190	1.00	18.06	W	O
55	ATOM	10378	OW	HOH	W	323	18.630	69.242	79.859	1.00	28.26	W	O
	ATOM	10379	OW	HOH	W	324	26.307	64.484	50.953	1.00	24.51	W	O
	ATOM	10380	OW	HOH	W	325	-4.484	49.244	75.926	1.00	30.92	W	O
	ATOM	10381	OW	HOH	W	326	-25.147	35.324	39.087	1.00	29.13	W	O
	ATOM	10382	OW	HOH	W	327	15.370	87.404	82.575	1.00	17.99	W	O
60	ATOM	10383	OW	HOH	W	328	35.168	80.992	56.752	1.00	37.26	W	O
	ATOM	10384	OW	HOH	W	329	-11.276	58.797	26.264	1.00	17.54	W	O
	ATOM	10385	OW	HOH	W	330	7.604	87.054	76.845	1.00	24.81	W	O
	ATOM	10386	OW	HOH	W	331	13.547	69.071	77.152	1.00	19.49	W	O
	ATOM	10387	OW	HOH	W	332	9.854	75.538	51.266	1.00	28.88	W	O
65	ATOM	10388	OW	HOH	W	333	-36.428	33.684	68.917	1.00	38.25	W	O
	ATOM	10389	OW	HOH	W	334	-13.911	41.878	73.945	1.00	27.15	W	O
	ATOM	10390	OW	HOH	W	335	-28.172	22.125	50.919	1.00	38.70	W	O
	ATOM	10391	OW	HOH	W	336	22.796	70.381	78.024	1.00	19.89	W	O
	ATOM	10392	OW	HOH	W	337	30.094	75.275	82.361	1.00	24.14	W	O

	ATOM	10393	OW	HOH	W	338	-3.239	68.063	21.951	1.00	31.43	W	O
	ATOM	10394	OW	HOH	W	339	-13.913	41.711	40.475	1.00	22.13	W	O
	ATOM	10395	OW	HOH	W	340	41.689	79.166	45.844	1.00	30.91	W	O
5	ATOM	10396	OW	HOH	W	341	16.357	85.367	72.475	1.00	10.42	W	O
	ATOM	10397	OW	HOH	W	342	28.707	84.621	47.208	1.00	25.80	W	O
	ATOM	10398	OW	HOH	W	343	-15.706	22.602	49.940	1.00	36.80	W	O
	ATOM	10399	OW	HOH	W	344	-2.868	45.490	51.646	1.00	27.21	W	O
	ATOM	10400	OW	HOH	W	345	-3.119	24.424	31.788	1.00	33.88	W	O
10	ATOM	10401	OW	HOH	W	346	-15.249	70.549	33.898	1.00	17.88	W	O
	ATOM	10402	OW	HOH	W	347	-11.408	55.832	31.956	1.00	23.74	W	O
	ATOM	10403	OW	HOH	W	348	-28.223	37.376	30.179	1.00	31.71	W	O
	ATOM	10404	OW	HOH	W	349	-28.556	53.674	50.130	1.00	28.46	W	O
	ATOM	10405	OW	HOH	W	350	55.829	62.564	73.714	1.00	45.26	W	O
	ATOM	10406	OW	HOH	W	351	-2.963	29.247	31.877	1.00	42.76	W	O
15	ATOM	10407	OW	HOH	W	352	-9.040	57.373	26.558	1.00	21.40	W	O
	ATOM	10408	OW	HOH	W	353	-13.481	76.087	23.868	1.00	33.94	W	O
	ATOM	10409	OW	HOH	W	354	-10.747	55.288	26.706	1.00	26.14	W	O
	ATOM	10410	OW	HOH	W	355	-22.501	66.330	23.660	1.00	19.28	W	O
20	ATOM	10411	OW	HOH	W	356	-4.462	66.087	45.073	1.00	18.29	W	O
	ATOM	10412	OW	HOH	W	357	-30.593	57.092	27.826	1.00	32.19	W	O
	ATOM	10413	OW	HOH	W	358	-14.883	21.862	47.278	1.00	30.35	W	O
	ATOM	10414	OW	HOH	W	359	38.571	84.479	34.642	1.00	36.25	W	O
	ATOM	10415	OW	HOH	W	360	39.502	80.183	69.775	1.00	34.57	W	O
	ATOM	10416	OW	HOH	W	361	-12.287	79.972	28.486	1.00	44.38	W	O
25	ATOM	10417	OW	HOH	W	362	15.007	83.174	91.639	1.00	37.45	W	O
	ATOM	10418	OW	HOH	W	363	-26.834	31.034	57.663	1.00	20.67	W	O
	ATOM	10419	OW	HOH	W	364	25.353	37.901	59.576	1.00	25.00	W	O
	ATOM	10420	OW	HOH	W	365	5.581	37.731	60.947	1.00	30.06	W	O
30	ATOM	10421	OW	HOH	W	366	11.090	56.943	43.297	1.00	35.04	W	O
	ATOM	10422	OW	HOH	W	367	29.498	39.359	65.957	1.00	26.93	W	O
	ATOM	10423	OW	HOH	W	368	4.122	61.933	66.590	1.00	31.11	W	O
	ATOM	10424	OW	HOH	W	369	-15.853	41.760	75.361	1.00	34.40	W	O
	ATOM	10425	OW	HOH	W	370	48.485	48.924	59.317	1.00	20.92	W	O
35	ATOM	10426	OW	HOH	W	371	41.100	39.576	72.372	1.00	31.79	W	O
	ATOM	10427	OW	HOH	W	372	-3.860	48.602	52.055	1.00	16.02	W	O
	ATOM	10428	OW	HOH	W	373	45.383	60.833	38.478	1.00	27.14	W	O
	ATOM	10429	OW	HOH	W	374	15.611	36.732	38.347	1.00	31.34	W	O
	ATOM	10430	OW	HOH	W	375	-12.520	78.786	25.716	1.00	34.07	W	O
40	ATOM	10431	OW	HOH	W	376	8.879	76.101	18.645	1.00	33.68	W	O
	ATOM	10432	OW	HOH	W	377	39.218	59.419	31.034	1.00	36.20	W	O
	ATOM	10433	OW	HOH	W	378	-27.062	55.388	32.957	1.00	24.56	W	O
	ATOM	10434	OW	HOH	W	379	-9.637	49.291	28.061	1.00	37.83	W	O
	ATOM	10435	OW	HOH	W	380	28.401	80.550	44.954	1.00	19.82	W	O
45	ATOM	10436	OW	HOH	W	381	4.438	45.163	67.727	1.00	30.51	W	O
	ATOM	10437	OW	HOH	W	382	3.070	41.102	26.118	1.00	19.15	W	O
	ATOM	10438	OW	HOH	W	383	44.397	81.747	58.762	1.00	24.47	W	O
	ATOM	10439	OW	HOH	W	384	-2.332	59.469	71.265	1.00	34.91	W	O
	ATOM	10440	OW	HOH	W	385	-20.000	29.900	35.769	1.00	21.15	W	O
50	ATOM	10441	OW	HOH	W	386	50.813	62.024	49.744	1.00	26.97	W	O
	ATOM	10442	OW	HOH	W	387	39.856	59.641	50.517	1.00	20.91	W	O
	ATOM	10443	OW	HOH	W	388	37.472	62.715	48.133	1.00	26.57	W	O
	ATOM	10444	OW	HOH	W	389	36.633	60.073	31.329	1.00	35.50	W	O
	ATOM	10445	OW	HOH	W	390	-28.458	45.973	38.611	1.00	34.45	W	O
55	ATOM	10446	OW	HOH	W	391	30.110	83.983	64.160	1.00	25.41	W	O
	ATOM	10447	OW	HOH	W	392	25.925	78.898	72.015	1.00	14.45	W	O
	ATOM	10448	OW	HOH	W	393	0.972	43.645	55.046	1.00	32.18	W	O
	ATOM	10449	OW	HOH	W	394	42.445	82.113	40.751	1.00	31.02	W	O
	ATOM	10450	OW	HOH	W	395	48.445	72.365	45.331	1.00	26.35	W	O
60	ATOM	10451	OW	HOH	W	396	32.783	79.050	30.592	1.00	31.32	W	O
	ATOM	10452	OW	HOH	W	397	23.471	87.653	68.904	1.00	23.75	W	O
	ATOM	10453	OW	HOH	W	398	19.738	71.674	77.731	1.00	22.05	W	O
	ATOM	10454	OW	HOH	W	399	31.901	38.883	67.720	1.00	34.99	W	O
	ATOM	10455	OW	HOH	W	400	40.277	65.722	74.913	1.00	22.62	W	O
65	ATOM	10456	OW	HOH	W	401	-14.556	77.285	29.455	1.00	31.98	W	O
	ATOM	10457	OW	HOH	W	402	37.829	61.757	50.868	1.00	24.74	W	O
	ATOM	10458	OW	HOH	W	403	-30.175	54.029	65.283	1.00	33.27	W	O
	ATOM	10459	OW	HOH	W	404	35.638	63.463	45.117	1.00	25.62	W	O
	ATOM	10460	OW	HOH	W	405	25.566	50.067	46.787	1.00	27.80	W	O

5	ATOM	10461	OW	HOH	W	406	48.117	58.968	45.708	1.00	28.35	W	O
	ATOM	10462	OW	HOH	W	407	42.657	63.014	36.526	1.00	27.93	W	O
	ATOM	10463	OW	HOH	W	408	38.198	84.684	75.233	1.00	33.14	W	O
	ATOM	10464	OW	HOH	W	409	-16.692	35.529	56.123	1.00	17.97	W	O
	ATOM	10465	OW	HOH	W	410	-14.571	54.985	25.986	1.00	19.35	W	O
	ATOM	10466	OW	HOH	W	411	19.591	73.405	75.622	1.00	30.03	W	O
	ATOM	10467	OW	HOH	W	412	-7.377	39.449	28.931	1.00	27.41	W	O
10	ATOM	10468	OW	HOH	W	413	7.213	85.283	81.777	1.00	31.54	W	O
	ATOM	10469	OW	HOH	W	414	-21.425	51.470	49.399	1.00	19.42	W	O
	ATOM	10470	OW	HOH	W	415	-12.850	56.726	20.112	1.00	26.44	W	O
	ATOM	10471	OW	HOH	W	416	-18.518	37.329	37.397	1.00	20.84	W	O
15	ATOM	10472	OW	HOH	W	417	18.283	68.775	77.243	1.00	26.24	W	O
	ATOM	10473	OW	HOH	W	418	35.892	60.196	69.872	1.00	37.85	W	O
	ATOM	10474	OW	HOH	W	419	-19.988	18.760	31.587	1.00	41.12	W	O
	ATOM	10475	OW	HOH	W	420	-16.743	30.509	56.148	1.00	19.90	W	O
	ATOM	10476	OW	HOH	W	421	17.466	43.592	76.685	1.00	25.30	W	O
	ATOM	10477	OW	HOH	W	422	31.533	74.248	57.216	1.00	22.01	W	O
20	ATOM	10478	OW	HOH	W	423	21.441	71.439	86.560	1.00	29.82	W	O
	ATOM	10479	OW	HOH	W	424	-7.102	23.755	31.908	1.00	40.82	W	O
	ATOM	10480	OW	HOH	W	425	-25.511	53.362	23.724	1.00	30.94	W	O
	ATOM	10481	OW	HOH	W	426	-19.685	27.407	39.496	1.00	14.70	W	O
25	ATOM	10482	OW	HOH	W	427	-26.181	68.778	22.843	1.00	32.25	W	O
	ATOM	10483	OW	HOH	W	428	15.789	40.290	34.960	1.00	27.94	W	O
	ATOM	10484	OW	HOH	W	429	2.296	23.424	48.253	1.00	25.14	W	O
	ATOM	10485	OW	HOH	W	430	47.029	59.295	48.417	1.00	26.25	W	O
	ATOM	10486	OW	HOH	W	431	18.503	58.897	44.658	1.00	44.13	W	O
	ATOM	10487	OW	HOH	W	432	-21.784	27.148	33.529	1.00	35.31	W	O
30	ATOM	10488	OW	HOH	W	433	21.830	52.531	90.645	1.00	61.47	W	O
	ATOM	10489	OW	HOH	W	434	41.635	70.541	65.500	1.00	20.36	W	O
	ATOM	10490	OW	HOH	W	435	7.131	74.944	82.237	1.00	21.71	W	O
	ATOM	10491	P	PO4	X	897	17.459	47.697	57.351	1.00	47.58	x	P
35	ATOM	10492	O1	PO4	X	897	17.225	48.234	58.732	1.00	45.95	x	O
	ATOM	10493	O2	PO4	X	897	18.363	48.632	56.633	1.00	51.25	x	O
	ATOM	10494	O3	PO4	X	897	16.153	47.537	56.607	1.00	46.86	x	O
	ATOM	10495	O4	PO4	X	897	18.227	46.420	57.368	1.00	48.65	x	O
	ATOM	10496	P	PO4	X	898	7.050	42.922	49.152	1.00	52.48	x	P
	ATOM	10497	O1	PO4	X	898	7.310	43.433	50.552	1.00			

Table 3: Atomic coordinates for AMPDA with coformycin

REMARK xplor input												
5	CRYST1	148.693	148.693	158.499	90.00	90.00	90.00	P42212				
	SCALE1	0.00673	0.00000	0.00000			0.00000					
	SCALE2	0.00000	0.00673	0.00000			0.00000					
	SCALE3	0.00000	0.00000	0.00631			0.00000					
REMARK FILENAME="brefinement.pdb"												
REMARK r= 0.236254 free_r= 0.272333												
10	REMARK	DATE:28-Mar-00	16:07:25	created by user: chrisp								
	ATOM	1	CB	SER A 106	17.469	72.894	93.220	1.00	42.33	A	C	
	ATOM	2	OG	SER A 106	18.455	73.447	92.358	1.00	44.48	A	O	
	ATOM	3	C	SER A 106	18.654	74.571	94.656	1.00	41.87	A	C	
	ATOM	4	O	SER A 106	18.497	75.734	94.274	1.00	43.15	A	O	
	15	ATOM	5	N	SER A 106	16.194	74.229	94.880	1.00	40.00	A	N
	ATOM	6	CA	SER A 106	17.501	73.561	94.599	1.00	41.47	A	C	
	ATOM	7	N	PRO A 107	19.834	74.130	95.127	1.00	39.96	A	N	
	ATOM	8	CD	PRO A 107	20.140	72.766	95.587	1.00	37.58	A	C	
	20	ATOM	9	CA	PRO A 107	21.001	75.014	95.228	1.00	38.80	A	C
	ATOM	10	CB	PRO A 107	22.043	74.167	95.970	1.00	35.25	A	C	
	ATOM	11	CG	PRO A 107	21.314	72.971	96.481	1.00	34.22	A	C	
	ATOM	12	C	PRO A 107	21.552	75.543	93.896	1.00	39.86	A	C	
	ATOM	13	O	PRO A 107	22.197	76.595	93.866	1.00	41.80	A	O	
	ATOM	14	N	THR A 108	21.292	74.833	92.800	1.00	39.07	A	N	
	25	ATOM	15	CA	THR A 108	21.812	75.241	91.495	1.00	38.25	A	C
	ATOM	16	CB	THR A 108	22.009	74.014	90.567	1.00	38.74	A	C	
	ATOM	17	OG1	THR A 108	20.768	73.690	89.923	1.00	39.26	A	O	
	ATOM	18	CG2	THR A 108	22.497	72.807	91.371	1.00	37.76	A	C	
	30	ATOM	19	C	THR A 108	21.010	76.296	90.727	1.00	38.48	A	C
	ATOM	20	O	THR A 108	21.333	76.600	89.577	1.00	38.30	A	O	
	ATOM	21	N	TYR A 109	19.981	76.866	91.349	1.00	37.86	A	N	
	ATOM	22	CA	TYR A 109	19.172	77.884	90.675	1.00	34.64	A	C	
	ATOM	23	CB	TYR A 109	17.685	77.616	90.918	1.00	34.09	A	C	
	35	ATOM	24	CG	TYR A 109	17.085	76.671	89.902	1.00	37.11	A	C
	ATOM	25	CD1	TYR A 109	17.812	75.574	89.426	1.00	37.43	A	C	
	ATOM	26	CE1	TYR A 109	17.272	74.703	88.482	1.00	36.06	A	C	
	ATOM	27	CD2	TYR A 109	15.800	76.872	89.406	1.00	35.75	A	C	
	ATOM	28	CE2	TYR A 109	15.251	76.007	88.462	1.00	37.53	A	C	
	40	ATOM	29	CZ	TYR A 109	15.991	74.925	88.004	1.00	37.19	A	C
	ATOM	30	OH	TYR A 109	15.442	74.064	87.075	1.00	35.16	A	O	
	ATOM	31	C	TYR A 109	19.527	79.296	91.124	1.00	31.80	A	C	
	ATOM	32	O	TYR A 109	18.813	80.251	90.832	1.00	31.02	A	O	
	ATOM	33	N	GLN A 110	20.645	79.419	91.829	1.00	31.25	A	N	
	ATOM	34	CA	GLN A 110	21.099	80.709	92.330	1.00	31.63	A	C	
	45	ATOM	35	CB	GLN A 110	22.424	80.539	93.080	1.00	31.57	A	C
	ATOM	36	CG	GLN A 110	22.849	81.761	93.887	1.00	32.77	A	C	
	ATOM	37	CD	GLN A 110	21.901	82.052	95.038	1.00	33.60	A	C	
	ATOM	38	OE1	GLN A 110	21.056	81.222	95.386	1.00	34.22	A	O	
	50	ATOM	39	NE2	GLN A 110	22.035	83.236	95.635	1.00	31.89	A	N
	ATOM	40	C	GLN A 110	21.306	81.688	91.190	1.00	31.23	A	C	
	ATOM	41	O	GLN A 110	21.295	82.909	91.379	1.00	31.20	A	O	
	ATOM	42	N	THR A 111	21.482	81.137	89.997	1.00	29.81	A	N	
	ATOM	43	CA	THR A 111	21.757	81.941	88.823	1.00	27.75	A	C	
	55	ATOM	44	CB	THR A 111	23.001	81.365	88.124	1.00	25.09	A	C
	ATOM	45	OG1	THR A 111	23.705	82.418	87.467	1.00	32.06	A	O	
	ATOM	46	CG2	THR A 111	22.612	80.290	87.131	1.00	23.52	A	C	
	ATOM	47	C	THR A 111	20.589	82.053	87.835	1.00	25.83	A	C	
	ATOM	48	O	THR A 111	20.670	82.797	86.853	1.00	25.00	A	O	
	60	ATOM	49	N	VAL A 112	19.508	81.326	88.116	1.00	21.78	A	N
	ATOM	50	CA	VAL A 112	18.314	81.299	87.271	1.00	18.40	A	C	
	ATOM	51	CB	VAL A 112	17.647	79.898	87.305	1.00	14.26	A	C	
	ATOM	52	CG1	VAL A 112	16.462	79.862	86.365	1.00	6.66	A	C	
	ATOM	53	CG2	VAL A 112	18.661	78.827	86.949	1.00	11.08	A	C	
	65	ATOM	54	C	VAL A 112	17.244	82.313	87.682	1.00	19.45	A	C
	ATOM	55	O	VAL A 112	16.745	82.271	88.803	1.00	23.56	A	O	
	ATOM	56	N	PRO A 113	16.869	83.228	86.774	1.00	17.94	A	N	
	ATOM	57	CD	PRO A 113	17.393	83.420	85.416	1.00	14.36	A	C	
	ATOM	58	CA	PRO A 113	15.842	84.225	87.094	1.00	17.47	A	C	

	ATOM	59	CB	PRO	A	113	15.927	85.225	85.939	1.00	15.37	A	C
	ATOM	60	CG	PRO	A	113	17.195	84.884	85.206	1.00	12.74	A	C
	ATOM	61	C	PRO	A	113	14.450	83.601	87.183	1.00	21.21	A	C
5	ATOM	62	O	PRO	A	113	14.233	82.454	86.786	1.00	21.71	A	O
	ATOM	63	N	ASP	A	114	13.505	84.362	87.715	1.00	24.01	A	N
	ATOM	64	CA	ASP	A	114	12.137	83.889	87.831	1.00	25.11	A	C
	ATOM	65	CB	ASP	A	114	11.327	84.807	88.754	1.00	27.71	A	C
	ATOM	66	CG	ASP	A	114	11.695	84.647	90.217	1.00	33.29	A	C
10	ATOM	67	OD1	ASP	A	114	12.155	83.550	90.603	1.00	37.45	A	O
	ATOM	68	OD2	ASP	A	114	11.523	85.623	90.982	1.00	33.72	A	O
	ATOM	69	C	ASP	A	114	11.512	83.932	86.445	1.00	23.59	A	C
	ATOM	70	O	ASP	A	114	11.899	84.748	85.608	1.00	23.68	A	O
	ATOM	71	N	PHE	A	115	10.559	83.043	86.202	1.00	18.87	A	N
15	ATOM	72	CA	PHE	A	115	9.837	83.020	84.940	1.00	18.21	A	C
	ATOM	73	CB	PHE	A	115	10.720	82.495	83.793	1.00	14.68	A	C
	ATOM	74	CG	PHE	A	115	11.083	81.040	83.897	1.00	10.29	A	C
	ATOM	75	CD1	PHE	A	115	12.180	80.634	84.643	1.00	10.25	A	C
	ATOM	76	CD2	PHE	A	115	10.355	80.082	83.207	1.00	10.02	A	C
20	ATOM	77	CE1	PHE	A	115	12.548	79.297	84.699	1.00	9.90	A	C
	ATOM	78	CE2	PHE	A	115	10.714	78.739	83.257	1.00	12.56	A	C
	ATOM	79	CZ	PHE	A	115	11.814	78.345	84.004	1.00	9.41	A	C
	ATOM	80	C	PHE	A	115	8.595	82.163	85.151	1.00	18.52	A	C
	ATOM	81	O	PHE	A	115	8.564	81.328	86.059	1.00	16.51	A	O
25	ATOM	82	N	GLN	A	116	7.564	82.386	84.340	1.00	18.52	A	N
	ATOM	83	CA	GLN	A	116	6.319	81.644	84.485	1.00	17.37	A	C
	ATOM	84	CB	GLN	A	116	5.181	82.415	83.823	1.00	17.42	A	C
	ATOM	85	CG	GLN	A	116	4.935	83.771	84.466	1.00	19.34	A	C
	ATOM	86	CD	GLN	A	116	3.799	84.529	83.820	1.00	21.38	A	C
30	ATOM	87	OE1	GLN	A	116	3.986	85.188	82.796	1.00	23.27	A	O
	ATOM	88	NE2	GLN	A	116	2.610	84.446	84.418	1.00	20.69	A	N
	ATOM	89	C	GLN	A	116	6.402	80.234	83.932	1.00	16.28	A	C
	ATOM	90	O	GLN	A	116	6.935	80.004	82.848	1.00	19.12	A	O
	ATOM	91	N	ARG	A	117	5.873	79.287	84.694	1.00	16.67	A	N
35	ATOM	92	CA	ARG	A	117	5.893	77.891	84.299	1.00	15.52	A	C
	ATOM	93	CB	ARG	A	117	6.566	77.053	85.382	1.00	13.87	A	C
	ATOM	94	CG	ARG	A	117	8.081	77.150	85.375	1.00	17.86	A	C
	ATOM	95	CD	ARG	A	117	8.652	76.685	86.695	1.00	19.56	A	C
	ATOM	96	NE	ARG	A	117	10.112	76.726	86.730	1.00	20.65	A	N
40	ATOM	97	CZ	ARG	A	117	10.818	77.741	87.217	1.00	19.57	A	C
	ATOM	98	NH1	ARG	A	117	10.200	78.801	87.706	1.00	18.46	A	N
	ATOM	99	NH2	ARG	A	117	12.142	77.685	87.241	1.00	22.16	A	N
	ATOM	100	C	ARG	A	117	4.500	77.347	84.053	1.00	16.68	A	C
	ATOM	101	O	ARG	A	117	3.504	77.926	84.491	1.00	16.14	A	O
45	ATOM	102	N	VAL	A	118	4.436	76.225	83.345	1.00	16.52	A	N
	ATOM	103	CA	VAL	A	118	3.163	75.595	83.067	1.00	19.49	A	C
	ATOM	104	CB	VAL	A	118	2.906	75.438	81.536	1.00	19.15	A	C
	ATOM	105	CG1	VAL	A	118	4.134	75.837	80.754	1.00	19.29	A	C
	ATOM	106	CG2	VAL	A	118	2.469	74.019	81.203	1.00	17.28	A	C
50	ATOM	107	C	VAL	A	118	3.165	74.243	83.746	1.00	20.55	A	C
	ATOM	108	O	VAL	A	118	4.035	73.412	83.498	1.00	23.13	A	O
	ATOM	109	N	GLN	A	119	2.199	74.035	84.630	1.00	22.01	A	N
	ATOM	110	CA	GLN	A	119	2.113	72.774	85.333	1.00	23.44	A	C
	ATOM	111	CB	GLN	A	119	2.481	72.952	86.806	1.00	24.94	A	C
55	ATOM	112	CG	GLN	A	119	1.832	74.137	87.485	1.00	35.23	A	C
	ATOM	113	CD	GLN	A	119	2.132	74.181	88.983	1.00	39.74	A	C
	ATOM	114	OE1	GLN	A	119	1.265	73.887	89.815	1.00	39.12	A	O
	ATOM	115	NE2	GLN	A	119	3.365	74.547	89.329	1.00	35.75	A	N
	ATOM	116	C	GLN	A	119	0.722	72.189	85.193	1.00	21.38	A	C
60	ATOM	117	O	GLN	A	119	-0.263	72.915	85.093	1.00	20.79	A	O
	ATOM	118	N	ILE	A	120	0.665	70.864	85.169	1.00	19.99	A	N
	ATOM	119	CA	ILE	A	120	-0.578	70.143	85.020	1.00	17.52	A	C
	ATOM	120	CB	ILE	A	120	-0.422	68.999	84.000	1.00	15.52	A	C
	ATOM	121	CG2	ILE	A	120	-1.770	68.360	83.721	1.00	13.36	A	C
65	ATOM	122	CG1	ILE	A	120	0.222	69.533	82.720	1.00	11.94	A	C
	ATOM	123	CD1	ILE	A	120	-0.481	70.737	82.129	1.00	9.16	A	C
	ATOM	124	C	ILE	A	120	-0.994	69.555	86.351	1.00	20.82	A	C
	ATOM	125	O	ILE	A	120	-0.209	68.879	87.014	1.00	21.02	A	O
	ATOM	126	N	THR	A	121	-2.234	69.822	86.739	1.00	24.35	A	N

	ATOM	127	CA	THR	A	121	-2.776	69.307	87.986	1.00	27.02	A	C
	ATOM	128	CB	THR	A	121	-3.664	70.354	88.682	1.00	25.39	A	C
	ATOM	129	OG1	THR	A	121	-4.889	70.491	87.960	1.00	26.55	A	O
	ATOM	130	CG2	THR	A	121	-2.960	71.701	88.740	1.00	23.44	A	C
5	ATOM	131	C	THR	A	121	-3.615	68.074	87.683	1.00	29.65	A	C
	ATOM	132	O	THR	A	121	-4.097	67.906	86.565	1.00	32.98	A	O
	ATOM	133	N	GLY	A	122	-3.782	67.207	88.676	1.00	31.96	A	N
	ATOM	134	CA	GLY	A	122	-4.575	66.009	88.478	1.00	34.06	A	C
10	ATOM	135	C	GLY	A	122	-3.753	64.755	88.264	1.00	37.53	A	C
	ATOM	136	O	GLY	A	122	-2.541	64.816	88.061	1.00	37.19	A	O
	ATOM	137	N	ASP	A	123	-4.426	63.609	88.310	1.00	41.38	A	N
	ATOM	138	CA	ASP	A	123	-3.777	62.316	88.123	1.00	45.34	A	C
	ATOM	139	CB	ASP	A	123	-4.588	61.210	88.801	1.00	49.75	A	C
	ATOM	140	CG	ASP	A	123	-4.654	61.377	90.302	1.00	54.65	A	C
15	ATOM	141	OD1	ASP	A	123	-3.583	61.564	90.923	1.00	54.71	A	O
	ATOM	142	OD2	ASP	A	123	-5.776	61.321	90.855	1.00	59.67	A	O
	ATOM	143	C	ASP	A	123	-3.647	61.993	86.650	1.00	45.18	A	C
	ATOM	144	O	ASP	A	123	-4.614	62.114	85.896	1.00	46.10	A	O
	ATOM	145	N	TYR	A	124	-2.455	61.574	86.243	1.00	43.78	A	N
20	ATOM	146	CA	TYR	A	124	-2.220	61.232	84.850	1.00	43.30	A	C
	ATOM	147	CB	TYR	A	124	-0.716	61.160	84.574	1.00	40.50	A	C
	ATOM	148	CG	TYR	A	124	-0.126	62.484	84.148	1.00	36.03	A	C
	ATOM	149	CD1	TYR	A	124	0.366	63.387	85.091	1.00	34.01	A	C
	ATOM	150	CE1	TYR	A	124	0.884	64.622	84.705	1.00	30.75	A	C
25	ATOM	151	CD2	TYR	A	124	-0.081	62.847	82.805	1.00	32.07	A	C
	ATOM	152	CE2	TYR	A	124	0.436	64.077	82.411	1.00	30.66	A	C
	ATOM	153	CZ	TYR	A	124	0.915	64.959	83.365	1.00	29.12	A	C
	ATOM	154	OH	TYR	A	124	1.411	66.179	82.973	1.00	27.16	A	O
	ATOM	155	C	TYR	A	124	-2.887	59.902	84.514	1.00	44.21	A	C
30	ATOM	156	O	TYR	A	124	-2.652	58.923	85.254	1.00	46.34	A	O
	ATOM	157	OT	TYR	A	124	-3.646	59.861	83.521	1.00	42.41	A	O
	ATOM	158	CB	ASP	B	132	-2.811	49.126	79.403	1.00	53.85	B	C
	ATOM	159	CG	ASP	B	132	-2.792	49.618	77.960	1.00	57.50	B	C
	ATOM	160	OD1	ASP	B	132	-2.618	50.841	77.752	1.00	56.26	B	O
35	ATOM	161	OD2	ASP	B	132	-2.955	48.782	77.039	1.00	59.13	B	O
	ATOM	162	C	ASP	B	132	-0.397	49.659	79.771	1.00	49.79	B	C
	ATOM	163	O	ASP	B	132	0.517	49.597	78.944	1.00	49.70	B	O
	ATOM	164	N	ASP	B	132	-1.550	48.056	81.259	1.00	49.05	B	N
	ATOM	165	CA	ASP	B	132	-1.457	48.567	79.856	1.00	50.93	B	C
40	ATOM	166	N	PHE	B	133	-0.534	50.664	80.629	1.00	48.13	B	N
	ATOM	167	CA	PHE	B	133	0.418	51.765	80.681	1.00	44.41	B	C
	ATOM	168	CB	PHE	B	133	-0.124	52.885	81.575	1.00	42.25	B	C
	ATOM	169	CG	PHE	B	133	0.828	54.035	81.755	1.00	42.49	B	C
	ATOM	170	CD1	PHE	B	133	1.084	54.548	83.025	1.00	38.96	B	C
45	ATOM	171	CD2	PHE	B	133	1.477	54.603	80.652	1.00	42.67	B	C
	ATOM	172	CE1	PHE	B	133	1.972	55.610	83.200	1.00	39.72	B	C
	ATOM	173	CE2	PHE	B	133	2.368	55.666	80.812	1.00	41.60	B	C
	ATOM	174	CZ	PHE	B	133	2.618	56.172	82.093	1.00	41.66	B	C
	ATOM	175	C	PHE	B	133	1.701	51.199	81.275	1.00	43.31	B	C
50	ATOM	176	O	PHE	B	133	2.800	51.684	81.010	1.00	44.16	B	O
	ATOM	177	N	GLU	B	134	1.542	50.158	82.083	1.00	43.36	B	N
	ATOM	178	CA	GLU	B	134	2.667	49.502	82.728	1.00	41.99	B	C
	ATOM	179	CB	GLU	B	134	2.161	48.370	83.625	1.00	45.83	B	C
	ATOM	180	CG	GLU	B	134	2.672	48.438	85.059	1.00	52.01	B	C
55	ATOM	181	CD	GLU	B	134	3.404	47.176	85.476	1.00	55.26	B	C
	ATOM	182	OE1	GLU	B	134	2.873	46.072	85.227	1.00	56.85	B	O
	ATOM	183	OE2	GLU	B	134	4.509	47.291	86.050	1.00	56.25	B	O
	ATOM	184	C	GLU	B	134	3.618	48.937	81.685	1.00	39.68	B	C
	ATOM	185	O	GLU	B	134	4.837	49.097	81.782	1.00	38.43	B	O
60	ATOM	186	N	ILE	B	135	3.054	48.270	80.685	1.00	37.94	B	N
	ATOM	187	CA	ILE	B	135	3.865	47.674	79.637	1.00	36.57	B	C
	ATOM	188	CB	ILE	B	135	3.022	46.717	78.741	1.00	39.47	B	C
	ATOM	189	CG2	ILE	B	135	1.986	45.977	79.591	1.00	38.38	B	C
	ATOM	190	CG1	ILE	B	135	2.336	47.501	77.622	1.00	43.38	B	C
65	ATOM	191	CD1	ILE	B	135	2.969	47.277	76.251	1.00	46.17	B	C
	ATOM	192	C	ILE	B	135	4.518	48.746	78.780	1.00	33.21	B	C
	ATOM	193	O	ILE	B	135	5.596	48.537	78.231	1.00	34.86	B	O
	ATOM	194	N	VAL	B	136	3.865	49.896	78.663	1.00	29.53	B	N

	ATOM	195	CA	VAL	B	136	4.419	50.979	77.870	1.00	26.84	B	C
	ATOM	196	CB	VAL	B	136	3.398	52.133	77.682	1.00	26.29	B	C
	ATOM	197	CG1	VAL	B	136	4.088	53.341	77.070	1.00	23.48	B	C
5	ATOM	198	CG2	VAL	B	136	2.246	51.678	76.800	1.00	22.26	B	C
	ATOM	199	C	VAL	B	136	5.638	51.505	78.611	1.00	26.14	B	C
	ATOM	200	O	VAL	B	136	6.708	51.677	78.030	1.00	28.18	B	O
	ATOM	201	N	CYS	B	137	5.473	51.748	79.906	1.00	23.95	B	N
	ATOM	202	CA	CYS	B	137	6.557	52.256	80.733	1.00	22.30	B	C
10	ATOM	203	CB	CYS	B	137	6.047	52.556	82.142	1.00	23.35	B	C
	ATOM	204	SG	CYS	B	137	5.165	54.130	82.295	1.00	25.95	B	S
	ATOM	205	C	CYS	B	137	7.703	51.258	80.793	1.00	21.73	B	C
	ATOM	206	O	CYS	B	137	8.867	51.643	80.820	1.00	22.10	B	O
	ATOM	207	N	LYS	B	138	7.371	49.974	80.808	1.00	22.50	B	N
	ATOM	208	CA	LYS	B	138	8.388	48.928	80.846	1.00	22.69	B	C
15	ATOM	209	CB	LYS	B	138	7.734	47.557	81.013	1.00	27.90	B	C
	ATOM	210	CG	LYS	B	138	7.553	47.117	82.449	1.00	34.51	B	C
	ATOM	211	CD	LYS	B	138	6.777	45.814	82.512	1.00	40.74	B	C
	ATOM	212	CE	LYS	B	138	6.342	45.492	83.934	1.00	44.64	B	C
	ATOM	213	NZ	LYS	B	138	6.821	44.138	84.345	1.00	49.39	B	N
20	ATOM	214	C	LYS	B	138	9.204	48.939	79.558	1.00	20.20	B	C
	ATOM	215	O	LYS	B	138	10.427	48.802	79.593	1.00	19.32	B	O
	ATOM	216	N	GLY	B	139	8.513	49.093	78.428	1.00	18.01	B	N
	ATOM	217	CA	GLY	B	139	9.174	49.124	77.134	1.00	14.57	B	C
	ATOM	218	C	GLY	B	139	10.124	50.300	76.989	1.00	15.74	B	C
25	ATOM	219	O	GLY	B	139	11.256	50.143	76.532	1.00	13.40	B	O
	ATOM	220	N	LEU	B	140	9.668	51.485	77.383	1.00	16.06	B	N
	ATOM	221	CA	LEU	B	140	10.494	52.680	77.290	1.00	16.45	B	C
	ATOM	222	CB	LEU	B	140	9.673	53.915	77.676	1.00	18.85	B	C
	ATOM	223	CG	LEU	B	140	8.573	54.275	76.668	1.00	17.08	B	C
30	ATOM	224	CD1	LEU	B	140	7.712	55.407	77.196	1.00	14.23	B	C
	ATOM	225	CD2	LEU	B	140	9.221	54.675	75.361	1.00	15.80	B	C
	ATOM	226	C	LEU	B	140	11.718	52.559	78.189	1.00	17.53	B	C
	ATOM	227	O	LEU	B	140	12.806	53.027	77.846	1.00	18.93	B	O
	ATOM	228	N	TYR	B	141	11.545	51.927	79.344	1.00	18.55	B	N
35	ATOM	229	CA	TYR	B	141	12.650	51.752	80.277	1.00	16.73	B	C
	ATOM	230	CB	TYR	B	141	12.141	51.175	81.603	1.00	17.76	B	C
	ATOM	231	CG	TYR	B	141	13.202	50.466	82.408	1.00	18.73	B	C
	ATOM	232	CD1	TYR	B	141	13.315	49.076	82.375	1.00	15.87	B	C
	ATOM	233	CE1	TYR	B	141	14.332	48.422	83.066	1.00	20.28	B	C
40	ATOM	234	CD2	TYR	B	141	14.132	51.187	83.163	1.00	19.39	B	C
	ATOM	235	CE2	TYR	B	141	15.154	50.546	83.858	1.00	18.03	B	C
	ATOM	236	CZ	TYR	B	141	15.251	49.164	83.804	1.00	22.33	B	C
	ATOM	237	OH	TYR	B	141	16.277	48.518	84.465	1.00	25.81	B	O
	ATOM	238	C	TYR	B	141	13.683	50.815	79.659	1.00	18.12	B	C
45	ATOM	239	O	TYR	B	141	14.876	51.143	79.582	1.00	18.95	B	O
	ATOM	240	N	ARG	B	142	13.230	49.649	79.210	1.00	16.33	B	N
	ATOM	241	CA	ARG	B	142	14.141	48.683	78.614	1.00	17.79	B	C
	ATOM	242	CB	ARG	B	142	13.381	47.411	78.225	1.00	16.69	B	C
	ATOM	243	CG	ARG	B	142	14.094	46.578	77.188	1.00	22.51	B	C
50	ATOM	244	CD	ARG	B	142	13.946	45.073	77.399	1.00	24.16	B	C
	ATOM	245	NE	ARG	B	142	14.960	44.357	76.621	1.00	28.28	B	N
	ATOM	246	CZ	ARG	B	142	14.747	43.222	75.958	1.00	29.13	B	C
	ATOM	247	NH1	ARG	B	142	13.544	42.662	75.974	1.00	29.22	B	N
	ATOM	248	NH2	ARG	B	142	15.732	42.659	75.261	1.00	20.61	B	N
55	ATOM	249	C	ARG	B	142	14.857	49.276	77.395	1.00	19.46	B	C
	ATOM	250	O	ARG	B	142	16.029	48.988	77.157	1.00	18.56	B	O
	ATOM	251	N	ALA	B	143	14.158	50.115	76.635	1.00	19.10	B	N
	ATOM	252	CA	ALA	B	143	14.745	50.735	75.448	1.00	16.31	B	C
	ATOM	253	CB	ALA	B	143	13.682	51.512	74.669	1.00	16.16	B	C
60	ATOM	254	C	ALA	B	143	15.886	51.657	75.816	1.00	14.38	B	C
	ATOM	255	O	ALA	B	143	16.898	51.708	75.121	1.00	12.75	B	O
	ATOM	256	N	LEU	B	144	15.722	52.394	76.911	1.00	16.37	B	N
	ATOM	257	CA	LEU	B	144	16.759	53.317	77.369	1.00	14.12	B	C
	ATOM	258	CB	LEU	B	144	16.197	54.262	78.425	1.00	14.27	B	C
65	ATOM	259	CG	LEU	B	144	15.359	55.410	77.875	1.00	17.14	B	C
	ATOM	260	CD1	LEU	B	144	14.683	56.168	79.008	1.00	11.98	B	C
	ATOM	261	CD2	LEU	B	144	16.262	56.325	77.078	1.00	18.43	B	C
	ATOM	262	C	LEU	B	144	17.925	52.533	77.950	1.00	13.64	B	C

	ATOM	263	O	LEU B 144	19.067	52.979	77.923	1.00	12.92	B	O
	ATOM	264	N	CYS B 145	17.621	51.355	78.479	1.00	14.98	B	N
	ATOM	265	CA	CYS B 145	18.636	50.490	79.060	1.00	19.73	B	C
5	ATOM	266	CB	CYS B 145	17.977	49.320	79.786	1.00	25.56	B	C
	ATOM	267	SG	CYS B 145	17.926	49.519	81.554	1.00	35.22	B	S
	ATOM	268	C	CYS B 145	19.532	49.940	77.976	1.00	15.77	B	C
	ATOM	269	O	CYS B 145	20.741	49.787	78.173	1.00	18.34	B	O
	ATOM	270	N	ILE B 146	18.921	49.621	76.840	1.00	14.48	B	N
10	ATOM	271	CA	ILE B 146	19.641	49.076	75.698	1.00	12.17	B	C
	ATOM	272	CB	ILE B 146	18.667	48.613	74.603	1.00	9.36	B	C
	ATOM	273	CG2	ILE B 146	19.410	48.387	73.301	1.00	11.59	B	C
	ATOM	274	CG1	ILE B 146	17.981	47.321	75.041	1.00	8.97	B	C
	ATOM	275	CD1	ILE B 146	16.664	47.055	74.341	1.00	10.22	B	C
15	ATOM	276	C	ILE B 146	20.613	50.098	75.115	1.00	12.86	B	C
	ATOM	277	O	ILE B 146	21.766	49.765	74.827	1.00	13.75	B	O
	ATOM	278	N	ARG B 147	20.171	51.343	74.953	1.00	10.75	B	N
	ATOM	279	CA	ARG B 147	21.061	52.351	74.394	1.00	9.54	B	C
	ATOM	280	CB	ARG B 147	20.323	53.659	74.119	1.00	6.23	B	C
20	ATOM	281	CG	ARG B 147	21.284	54.781	73.748	1.00	4.46	B	C
	ATOM	282	CD	ARG B 147	20.594	55.962	73.095	1.00	6.95	B	C
	ATOM	283	NE	ARG B 147	21.551	57.015	72.736	1.00	10.68	B	N
	ATOM	284	CZ	ARG B 147	22.324	56.986	71.652	1.00	10.96	B	C
	ATOM	285	NH1	ARG B 147	22.259	55.955	70.819	1.00	7.25	B	N
25	ATOM	286	NH2	ARG B 147	23.151	57.991	71.393	1.00	7.25	B	N
	ATOM	287	C	ARG B 147	22.226	52.626	75.331	1.00	12.37	B	C
	ATOM	288	O	ARG B 147	23.362	52.832	74.888	1.00	15.42	B	O
	ATOM	289	N	GLU B 148	21.947	52.645	76.628	1.00	13.14	B	N
	ATOM	290	CA	GLU B 148	22.991	52.894	77.610	1.00	12.99	B	C
30	ATOM	291	CB	GLU B 148	22.376	53.014	79.004	1.00	17.43	B	C
	ATOM	292	CG	GLU B 148	23.402	53.182	80.122	1.00	20.15	B	C
	ATOM	293	CD	GLU B 148	22.803	52.930	81.487	1.00	22.89	B	C
	ATOM	294	OE1	GLU B 148	22.834	53.853	82.331	1.00	25.07	B	O
	ATOM	295	OE2	GLU B 148	22.296	51.812	81.716	1.00	22.18	B	O
35	ATOM	296	C	GLU B 148	24.015	51.764	77.599	1.00	12.57	B	C
	ATOM	297	O	GLU B 148	25.222	52.002	77.660	1.00	12.36	B	O
	ATOM	298	N	LYS B 149	23.529	50.528	77.520	1.00	10.62	B	N
	ATOM	299	CA	LYS B 149	24.413	49.371	77.508	1.00	11.48	B	C
	ATOM	300	CB	LYS B 149	23.587	48.080	77.442	1.00	9.03	B	C
40	ATOM	301	CG	LYS B 149	24.426	46.809	77.392	1.00	6.74	B	C
	ATOM	302	CD	LYS B 149	23.560	45.567	77.425	1.00	7.01	B	C
	ATOM	303	CE	LYS B 149	22.725	45.431	76.158	1.00	10.39	B	C
	ATOM	304	NZ	LYS B 149	21.900	44.190	76.164	1.00	13.70	B	N
	ATOM	305	C	LYS B 149	25.410	49.416	76.351	1.00	13.42	B	C
45	ATOM	306	O	LYS B 149	26.615	49.262	76.553	1.00	14.70	B	O
	ATOM	307	N	TYR B 150	24.906	49.642	75.140	1.00	14.98	B	N
	ATOM	308	CA	TYR B 150	25.751	49.697	73.957	1.00	12.28	B	C
	ATOM	309	CB	TYR B 150	24.878	49.562	72.708	1.00	16.29	B	C
	ATOM	310	CG	TYR B 150	24.276	48.173	72.568	1.00	17.60	B	C
50	ATOM	311	CD1	TYR B 150	25.074	47.085	72.213	1.00	18.40	B	C
	ATOM	312	CE1	TYR B 150	24.553	45.788	72.157	1.00	16.75	B	C
	ATOM	313	CD2	TYR B 150	22.934	47.932	72.859	1.00	15.23	B	C
	ATOM	314	CE2	TYR B 150	22.404	46.636	72.805	1.00	16.42	B	C
	ATOM	315	CZ	TYR B 150	23.227	45.570	72.455	1.00	16.36	B	C
55	ATOM	316	OH	TYR B 150	22.739	44.283	72.414	1.00	16.17	B	O
	ATOM	317	C	TYR B 150	26.612	50.954	73.886	1.00	14.67	B	C
	ATOM	318	O	TYR B 150	27.685	50.951	73.268	1.00	14.64	B	O
	ATOM	319	N	MET B 151	26.170	52.034	74.522	1.00	14.35	B	N
	ATOM	320	CA	MET B 151	26.964	53.264	74.511	1.00	16.43	B	C
60	ATOM	321	CB	MET B 151	26.122	54.459	74.967	1.00	16.12	B	C
	ATOM	322	CG	MET B 151	25.107	54.958	73.941	1.00	16.36	B	C
	ATOM	323	SD	MET B 151	25.837	55.459	72.353	1.00	14.40	B	S
	ATOM	324	CE	MET B 151	25.428	54.056	71.366	1.00	6.89	B	C
	ATOM	325	C	MET B 151	28.203	53.161	75.404	1.00	18.53	B	C
65	ATOM	326	O	MET B 151	29.302	53.527	74.991	1.00	22.35	B	O
	ATOM	327	N	LEU B 152	28.032	52.671	76.629	1.00	21.36	B	N
	ATOM	328	CA	LEU B 152	29.160	52.548	77.558	1.00	21.82	B	C
	ATOM	329	CB	LEU B 152	28.660	52.256	78.973	1.00	23.08	B	C
	ATOM	330	CG	LEU B 152	27.623	53.213	79.569	1.00	26.47	B	C

	ATOM	331	CD1	LEU	B	152	27.400	52.839	81.026	1.00	22.85	B	C
	ATOM	332	CD2	LEU	B	152	28.092	54.674	79.437	1.00	22.69	B	C
	ATOM	333	C	LEU	B	152	30.111	51.446	77.136	1.00	18.61	B	C
5	ATOM	334	O	LEU	B	152	31.325	51.558	77.295	1.00	18.23	B	O
	ATOM	335	N	LYS	B	153	29.540	50.378	76.600	1.00	18.04	B	N
	ATOM	336	CA	LYS	B	153	30.306	49.233	76.149	1.00	17.87	B	C
	ATOM	337	CB	LYS	B	153	29.331	48.129	75.736	1.00	19.68	B	C
	ATOM	338	CG	LYS	B	153	29.918	47.007	74.927	1.00	23.62	B	C
10	ATOM	339	CD	LYS	B	153	28.809	46.142	74.368	1.00	25.67	B	C
	ATOM	340	CE	LYS	B	153	27.960	45.574	75.481	1.00	27.89	B	C
	ATOM	341	NZ	LYS	B	153	26.976	44.585	74.968	1.00	34.82	B	N
	ATOM	342	C	LYS	B	153	31.248	49.593	74.995	1.00	18.23	B	C
	ATOM	343	O	LYS	B	153	32.241	48.904	74.767	1.00	21.45	B	O
15	ATOM	344	N	SER	B	154	30.950	50.676	74.282	1.00	16.45	B	N
	ATOM	345	CA	SER	B	154	31.782	51.099	73.157	1.00	17.83	B	C
	ATOM	346	CB	SER	B	154	30.949	51.196	71.877	1.00	17.45	B	C
	ATOM	347	OG	SER	B	154	29.969	52.210	71.997	1.00	22.10	B	O
	ATOM	348	C	SER	B	154	32.468	52.431	73.405	1.00	18.25	B	C
20	ATOM	349	O	SER	B	154	33.068	53.008	72.498	1.00	19.05	B	O
	ATOM	350	N	PHE	B	155	32.371	52.918	74.636	1.00	17.91	B	N
	ATOM	351	CA	PHE	B	155	32.994	54.177	75.030	1.00	17.30	B	C
	ATOM	352	CB	PHE	B	155	34.501	54.106	74.796	1.00	20.86	B	C
	ATOM	353	CG	PHE	B	155	35.179	53.055	75.620	1.00	24.23	B	C
25	ATOM	354	CD1	PHE	B	155	35.650	53.354	76.891	1.00	26.29	B	C
	ATOM	355	CD2	PHE	B	155	35.286	51.748	75.155	1.00	24.68	B	C
	ATOM	356	CE1	PHE	B	155	36.212	52.364	77.694	1.00	27.90	B	C
	ATOM	357	CE2	PHE	B	155	35.845	50.748	75.949	1.00	25.33	B	C
	ATOM	358	CZ	PHE	B	155	36.307	51.057	77.221	1.00	26.67	B	C
30	ATOM	359	C	PHE	B	155	32.412	55.394	74.331	1.00	17.79	B	C
	ATOM	360	O	PHE	B	155	33.130	56.341	73.990	1.00	16.86	B	O
	ATOM	361	N	GLN	B	156	31.102	55.367	74.119	1.00	16.08	B	N
	ATOM	362	CA	GLN	B	156	30.434	56.490	73.490	1.00	16.03	B	C
	ATOM	363	CB	GLN	B	156	29.580	55.999	72.321	1.00	15.61	B	C
35	ATOM	364	CG	GLN	B	156	30.437	55.500	71.143	1.00	11.78	B	C
	ATOM	365	CD	GLN	B	156	29.653	55.348	69.863	1.00	11.82	B	C
	ATOM	366	OE1	GLN	B	156	29.044	54.308	69.615	1.00	12.74	B	O
	ATOM	367	NE2	GLN	B	156	29.659	56.389	69.039	1.00	8.83	B	N
	ATOM	368	C	GLN	B	156	29.607	57.160	74.576	1.00	15.57	B	C
40	ATOM	369	O	GLN	B	156	29.425	56.587	75.650	1.00	16.98	B	O
	ATOM	370	N	ARG	B	157	29.114	58.363	74.309	1.00	13.67	B	N
	ATOM	371	CA	ARG	B	157	28.366	59.116	75.311	1.00	13.70	B	C
	ATOM	372	CB	ARG	B	157	28.514	60.615	75.024	1.00	10.33	B	C
	ATOM	373	CG	ARG	B	157	29.954	61.036	74.747	1.00	15.05	B	C
45	ATOM	374	CD	ARG	B	157	30.052	62.468	74.238	1.00	15.27	B	C
	ATOM	375	NE	ARG	B	157	29.557	62.588	72.867	1.00	20.35	B	N
	ATOM	376	CZ	ARG	B	157	29.531	63.722	72.170	1.00	17.76	B	C
	ATOM	377	NH1	ARG	B	157	29.058	63.723	70.932	1.00	19.30	B	N
	ATOM	378	NH2	ARG	B	157	29.983	64.851	72.701	1.00	11.43	B	N
	ATOM	379	C	ARG	B	157	26.893	58.803	75.547	1.00	13.86	B	C
50	ATOM	380	O	ARG	B	157	26.151	58.490	74.624	1.00	17.89	B	O
	ATOM	381	N	PHE	B	158	26.497	58.894	76.816	1.00	15.57	B	N
	ATOM	382	CA	PHE	B	158	25.119	58.707	77.271	1.00	13.94	B	C
	ATOM	383	CB	PHE	B	158	24.859	57.275	77.707	1.00	11.36	B	C
55	ATOM	384	CG	PHE	B	158	23.399	56.969	77.879	1.00	13.13	B	C
	ATOM	385	CD1	PHE	B	158	22.831	56.879	79.146	1.00	11.45	B	C
	ATOM	386	CD2	PHE	B	158	22.581	56.820	76.771	1.00	8.46	B	C
	ATOM	387	CE1	PHE	B	158	21.470	56.650	79.308	1.00	7.76	B	C
	ATOM	388	CE2	PHE	B	158	21.228	56.592	76.921	1.00	11.98	B	C
	ATOM	389	CZ	PHE	B	158	20.668	56.508	78.197	1.00	12.90	B	C
60	ATOM	390	C	PHE	B	158	24.951	59.647	78.472	1.00	16.09	B	C
	ATOM	391	O	PHE	B	158	25.702	59.548	79.445	1.00	16.57	B	O
	ATOM	392	N	PRO	B	159	23.964	60.570	78.420	1.00	16.69	B	N
	ATOM	393	CD	PRO	B	159	22.993	60.711	77.324	1.00	14.40	B	C
65	ATOM	394	CA	PRO	B	159	23.697	61.542	79.491	1.00	16.08	B	C
	ATOM	395	CB	PRO	B	159	22.455	62.291	79.001	1.00	13.30	B	C
	ATOM	396	CG	PRO	B	159	21.845	61.384	77.997	1.00	15.10	B	C
	ATOM	397	C	PRO	B	159	23.496	60.957	80.885	1.00	14.94	B	C
	ATOM	398	O	PRO	B	159	22.950	59.870	81.040	1.00	17.89	B	O

	ATOM	399	N	LYS	B	160	23.924	61.709	81.894	1.00	16.71	B	N
	ATOM	400	CA	LYS	B	160	23.816	61.283	83.287	1.00	18.58	B	C
	ATOM	401	CB	LYS	B	160	24.642	62.207	84.188	1.00	17.41	B	C
	ATOM	402	CG	LYS	B	160	26.144	61.968	84.096	1.00	26.52	B	C
5	ATOM	403	CD	LYS	B	160	26.953	63.071	84.778	1.00	30.88	B	C
	ATOM	404	CE	LYS	B	160	26.588	64.466	84.256	1.00	36.82	B	C
	ATOM	405	NZ	LYS	B	160	26.887	64.653	82.800	1.00	37.96	B	N
	ATOM	406	C	LYS	B	160	22.399	61.204	83.836	1.00	17.17	B	C
	ATOM	407	O	LYS	B	160	22.021	60.196	84.430	1.00	16.39	B	O
10	ATOM	408	N	THR	B	161	21.602	62.248	83.629	1.00	18.15	B	N
	ATOM	409	CA	THR	B	161	20.254	62.246	84.184	1.00	19.58	B	C
	ATOM	410	CB	THR	B	161	19.522	63.593	83.928	1.00	18.86	B	C
	ATOM	411	OG1	THR	B	161	18.664	63.482	82.794	1.00	28.69	B	O
	ATOM	412	CG2	THR	B	161	20.521	64.708	83.713	1.00	15.63	B	C
15	ATOM	413	C	THR	B	161	19.376	61.056	83.798	1.00	19.31	B	C
	ATOM	414	O	THR	B	161	18.705	60.496	84.660	1.00	21.41	B	O
	ATOM	415	N	PRO	B	162	19.356	60.650	82.514	1.00	20.44	B	N
	ATOM	416	CD	PRO	B	162	20.017	61.200	81.322	1.00	20.84	B	C
	ATOM	417	CA	PRO	B	162	18.513	59.491	82.176	1.00	20.33	B	C
20	ATOM	418	CB	PRO	B	162	18.675	59.345	80.662	1.00	16.38	B	C
	ATOM	419	CG	PRO	B	162	19.186	60.646	80.204	1.00	19.95	B	C
	ATOM	420	C	PRO	B	162	18.981	58.233	82.915	1.00	20.25	B	C
	ATOM	421	O	PRO	B	162	18.194	57.324	83.178	1.00	19.89	B	O
	ATOM	422	N	SER	B	163	20.272	58.187	83.233	1.00	20.15	B	N
25	ATOM	423	CA	SER	B	163	20.856	57.052	83.941	1.00	22.09	B	C
	ATOM	424	CB	SER	B	163	22.381	57.113	83.859	1.00	23.93	B	C
	ATOM	425	OG	SER	B	163	22.838	56.635	82.601	1.00	26.00	B	O
	ATOM	426	C	SER	B	163	20.420	57.047	85.400	1.00	21.41	B	C
	ATOM	427	O	SER	B	163	20.058	56.004	85.948	1.00	22.86	B	O
30	ATOM	428	N	LYS	B	164	20.460	58.216	86.028	1.00	17.68	B	N
	ATOM	429	CA	LYS	B	164	20.043	58.334	87.414	1.00	17.58	B	C
	ATOM	430	CB	LYS	B	164	20.054	59.795	87.847	1.00	16.11	B	C
	ATOM	431	CG	LYS	B	164	21.446	60.347	88.098	1.00	19.36	B	C
	ATOM	432	CD	LYS	B	164	21.394	61.844	88.349	1.00	20.33	B	C
35	ATOM	433	CE	LYS	B	164	22.785	62.415	88.523	1.00	26.06	B	C
	ATOM	434	NZ	LYS	B	164	22.757	63.906	88.548	1.00	32.59	B	N
	ATOM	435	C	LYS	B	164	18.643	57.756	87.598	1.00	19.21	B	C
	ATOM	436	O	LYS	B	164	18.384	57.061	88.584	1.00	21.80	B	O
	ATOM	437	N	TYR	B	165	17.742	58.035	86.654	1.00	17.58	B	N
40	ATOM	438	CA	TYR	B	165	16.375	57.528	86.743	1.00	17.92	B	C
	ATOM	439	CB	TYR	B	165	15.481	58.194	85.698	1.00	17.07	B	C
	ATOM	440	CG	TYR	B	165	14.852	59.470	86.182	1.00	16.98	B	C
	ATOM	441	CD1	TYR	B	165	13.663	59.451	86.905	1.00	18.60	B	C
	ATOM	442	CE1	TYR	B	165	13.103	60.622	87.399	1.00	19.43	B	C
45	ATOM	443	CD2	TYR	B	165	15.466	60.697	85.955	1.00	18.81	B	C
	ATOM	444	CE2	TYR	B	165	14.917	61.882	86.442	1.00	20.10	B	C
	ATOM	445	CZ	TYR	B	165	13.736	61.838	87.167	1.00	21.44	B	C
	ATOM	446	OH	TYR	B	165	13.203	63.004	87.683	1.00	23.25	B	O
	ATOM	447	C	TYR	B	165	16.346	56.022	86.543	1.00	20.46	B	C
50	ATOM	448	O	TYR	B	165	15.541	55.317	87.156	1.00	22.53	B	O
	ATOM	449	N	LEU	B	166	17.228	55.530	85.679	1.00	20.53	B	N
	ATOM	450	CA	LEU	B	166	17.298	54.104	85.403	1.00	21.59	B	C
	ATOM	451	CB	LEU	B	166	18.288	53.833	84.262	1.00	22.86	B	C
	ATOM	452	CG	LEU	B	166	17.852	54.189	82.829	1.00	22.35	B	C
55	ATOM	453	CD1	LEU	B	166	18.958	53.816	81.853	1.00	18.72	B	C
	ATOM	454	CD2	LEU	B	166	16.569	53.455	82.469	1.00	18.76	B	C
	ATOM	455	C	LEU	B	166	17.732	53.360	86.661	1.00	20.68	B	C
	ATOM	456	O	LEU	B	166	17.118	52.364	87.045	1.00	19.81	B	O
	ATOM	457	N	ARG	B	167	18.793	53.846	87.301	1.00	21.82	B	N
60	ATOM	458	CA	ARG	B	167	19.300	53.219	88.518	1.00	21.84	B	C
	ATOM	459	CB	ARG	B	167	20.538	53.970	89.024	1.00	21.19	B	C
	ATOM	460	CG	ARG	B	167	21.798	53.788	88.163	1.00	18.78	B	C
	ATOM	461	CD	ARG	B	167	22.114	52.314	87.870	1.00	18.71	B	C
	ATOM	462	NE	ARG	B	167	21.392	51.796	86.699	1.00	23.87	B	N
65	ATOM	463	CZ	ARG	B	167	21.658	52.116	85.428	1.00	19.86	B	C
	ATOM	464	NH1	ARG	B	167	22.640	52.960	85.132	1.00	17.39	B	N
	ATOM	465	NH2	ARG	B	167	20.924	51.606	84.448	1.00	13.96	B	N
	ATOM	466	C	ARG	B	167	18.201	53.210	89.585	1.00	23.67	B	C

	ATOM	467	O	ARG	B	167	17.977	52.192	90.244	1.00	23.02	B	O
	ATOM	468	N	SER	B	168	17.508	54.339	89.735	1.00	24.05	B	N
	ATOM	469	CA	SER	B	168	16.415	54.459	90.701	1.00	25.43	B	C
5	ATOM	470	CB	SER	B	168	15.712	55.801	90.557	1.00	26.18	B	C
	ATOM	471	OG	SER	B	168	16.632	56.870	90.654	1.00	36.80	B	O
	ATOM	472	C	SER	B	168	15.384	53.380	90.465	1.00	26.89	B	C
	ATOM	473	O	SER	B	168	15.025	52.628	91.372	1.00	29.97	B	O
	ATOM	474	N	ILE	B	169	14.891	53.330	89.234	1.00	27.18	B	N
10	ATOM	475	CA	ILE	B	169	13.886	52.357	88.850	1.00	27.08	B	C
	ATOM	476	CB	ILE	B	169	13.599	52.439	87.334	1.00	26.15	B	C
	ATOM	477	CG2	ILE	B	169	12.815	51.219	86.876	1.00	26.22	B	C
	ATOM	478	CG1	ILE	B	169	12.827	53.731	87.033	1.00	27.87	B	C
	ATOM	479	CD1	ILE	B	169	12.305	53.840	85.613	1.00	25.86	B	C
15	ATOM	480	C	ILE	B	169	14.339	50.956	89.215	1.00	28.25	B	C
	ATOM	481	O	ILE	B	169	13.532	50.122	89.619	1.00	30.07	B	O
	ATOM	482	N	GLU	B	170	15.637	50.708	89.089	1.00	31.29	B	N
	ATOM	483	CA	GLU	B	170	16.202	49.398	89.396	1.00	34.11	B	C
	ATOM	484	CB	GLU	B	170	17.578	49.256	88.750	1.00	34.11	B	C
20	ATOM	485	CG	GLU	B	170	17.530	48.975	87.268	1.00	37.25	B	C
	ATOM	486	CD	GLU	B	170	18.784	49.432	86.559	1.00	38.69	B	C
	ATOM	487	OE1	GLU	B	170	18.708	49.712	85.341	1.00	39.55	B	O
	ATOM	488	OE2	GLU	B	170	19.844	49.511	87.221	1.00	38.11	B	O
	ATOM	489	C	GLU	B	170	16.331	49.146	90.892	1.00	36.13	B	C
25	ATOM	490	O	GLU	B	170	16.389	47.998	91.333	1.00	36.91	B	O
	ATOM	491	N	GLY	B	171	16.379	50.218	91.672	1.00	37.48	B	N
	ATOM	492	CA	GLY	B	171	16.510	50.068	93.106	1.00	38.96	B	C
	ATOM	493	C	GLY	B	171	17.957	50.138	93.559	1.00	40.79	B	C
	ATOM	494	O	GLY	B	171	18.303	49.659	94.641	1.00	42.49	B	O
30	ATOM	495	N	THR	B	172	18.811	50.730	92.732	1.00	42.23	B	N
	ATOM	496	CA	THR	B	172	20.216	50.863	93.080	1.00	44.66	B	C
	ATOM	497	CB	THR	B	172	21.136	50.186	92.030	1.00	44.99	B	C
	ATOM	498	OG1	THR	B	172	21.849	51.188	91.297	1.00	47.97	B	O
	ATOM	499	CG2	THR	B	172	20.326	49.336	91.065	1.00	45.50	B	C
35	ATOM	500	C	THR	B	172	20.584	52.338	93.204	1.00	46.31	B	C
	ATOM	501	O	THR	B	172	19.896	53.208	92.669	1.00	46.95	B	O
	ATOM	502	N	ALA	B	173	21.661	52.617	93.930	1.00	50.19	B	N
	ATOM	503	CA	ALA	B	173	22.120	53.989	94.123	1.00	51.89	B	C
	ATOM	504	CB	ALA	B	173	22.932	54.092	95.406	1.00	51.99	B	C
40	ATOM	505	C	ALA	B	173	22.969	54.386	92.921	1.00	52.66	B	C
	ATOM	506	O	ALA	B	173	23.646	53.543	92.327	1.00	53.44	B	O
	ATOM	507	N	TRP	B	174	22.938	55.666	92.564	1.00	52.35	B	N
	ATOM	508	CA	TRP	B	174	23.695	56.135	91.411	1.00	52.48	B	C
	ATOM	509	CB	TRP	B	174	23.076	57.421	90.857	1.00	50.28	B	C
45	ATOM	510	CG	TRP	B	174	23.746	57.889	89.602	1.00	48.52	B	C
	ATOM	511	CD2	TRP	B	174	24.572	59.046	89.460	1.00	48.64	B	C
	ATOM	512	CE2	TRP	B	174	25.028	59.073	88.120	1.00	47.35	B	C
	ATOM	513	CE3	TRP	B	174	24.975	60.066	90.336	1.00	47.51	B	C
	ATOM	514	CD1	TRP	B	174	23.731	57.274	88.376	1.00	47.22	B	C
50	ATOM	515	NE1	TRP	B	174	24.501	57.979	87.483	1.00	43.78	B	N
	ATOM	516	CZ2	TRP	B	174	25.868	60.081	87.635	1.00	48.95	B	C
	ATOM	517	CZ3	TRP	B	174	25.810	61.072	89.853	1.00	49.56	B	C
	ATOM	518	CH2	TRP	B	174	26.250	61.068	88.513	1.00	50.37	B	C
	ATOM	519	C	TRP	B	174	25.184	56.351	91.665	1.00	52.34	B	C
55	ATOM	520	O	TRP	B	174	25.582	57.044	92.602	1.00	52.52	B	O
	ATOM	521	N	LYS	B	175	25.998	55.757	90.798	1.00	54.06	B	N
	ATOM	522	CA	LYS	B	175	27.453	55.851	90.880	1.00	53.84	B	C
	ATOM	523	CB	LYS	B	175	28.088	54.629	90.211	1.00	56.34	B	C
	ATOM	524	CG	LYS	B	175	27.275	54.059	89.040	1.00	56.05	B	C
60	ATOM	525	CD	LYS	B	175	27.760	52.665	88.641	1.00	57.64	B	C
	ATOM	526	CE	LYS	B	175	27.867	51.725	89.851	1.00	61.46	B	C
	ATOM	527	NZ	LYS	B	175	29.261	51.645	90.416	1.00	58.44	B	N
	ATOM	528	C	LYS	B	175	27.977	57.118	90.209	1.00	53.12	B	C
	ATOM	529	O	LYS	B	175	27.566	58.229	90.551	1.00	52.30	B	O
65	ATOM	530	N	ALA	B	176	28.890	56.934	89.257	1.00	52.78	B	N
	ATOM	531	CA	ALA	B	176	29.498	58.034	88.508	1.00	54.00	B	C
	ATOM	532	CB	ALA	B	176	29.999	59.119	89.466	1.00	52.20	B	C
	ATOM	533	C	ALA	B	176	30.660	57.503	87.665	1.00	55.01	B	C
	ATOM	534	O	ALA	B	176	31.396	58.275	87.047	1.00	56.45	B	O

	ATOM	535	N	ASN	B	177	30.810	56.180	87.647	1.00	56.00	B	N
	ATOM	536	CA	ASN	B	177	31.873	55.504	86.899	1.00	56.59	B	C
	ATOM	537	CB	ASN	B	177	31.438	54.070	86.553	1.00	57.42	B	C
	ATOM	538	CG	ASN	B	177	30.350	54.020	85.483	1.00	60.57	B	C
5	ATOM	539	OD1	ASN	B	177	29.426	54.836	85.479	1.00	64.28	B	O
	ATOM	540	ND2	ASN	B	177	30.458	53.057	84.569	1.00	60.11	B	N
	ATOM	541	C	ASN	B	177	32.321	56.223	85.622	1.00	54.67	B	C
	ATOM	542	O	ASN	B	177	31.559	56.353	84.657	1.00	52.94	B	O
	ATOM	543	N	GLU	B	178	33.567	56.687	85.625	1.00	52.88	B	N
10	ATOM	544	CA	GLU	B	178	34.124	57.377	84.468	1.00	53.25	B	C
	ATOM	545	CB	GLU	B	178	34.843	58.655	84.913	1.00	55.46	B	C
	ATOM	546	CG	GLU	B	178	33.908	59.775	85.359	1.00	57.37	B	C
	ATOM	547	CD	GLU	B	178	33.017	60.299	84.234	1.00	60.01	B	C
	ATOM	548	OE1	GLU	B	178	32.506	59.485	83.431	1.00	58.62	B	O
15	ATOM	549	OE2	GLU	B	178	32.823	61.533	84.157	1.00	61.66	B	O
	ATOM	550	C	GLU	B	178	35.096	56.469	83.707	1.00	51.23	B	C
	ATOM	551	O	GLU	B	178	35.979	56.945	82.989	1.00	51.86	B	O
	ATOM	552	N	SER	B	179	34.920	55.159	83.863	1.00	47.67	B	N
	ATOM	553	CA	SER	B	179	35.778	54.184	83.199	1.00	43.68	B	C
20	ATOM	554	CB	SER	B	179	35.753	52.859	83.960	1.00	40.47	B	C
	ATOM	555	OG	SER	B	179	34.487	52.642	84.551	1.00	40.10	B	O
	ATOM	556	C	SER	B	179	35.376	53.942	81.744	1.00	42.50	B	C
	ATOM	557	O	SER	B	179	36.229	53.639	80.909	1.00	41.86	B	O
	ATOM	558	N	SER	B	180	34.082	54.074	81.447	1.00	40.01	B	N
25	ATOM	559	CA	SER	B	180	33.576	53.868	80.091	1.00	38.05	B	C
	ATOM	560	CB	SER	B	180	32.242	53.127	80.133	1.00	36.77	B	C
	ATOM	561	OG	SER	B	180	32.110	52.405	81.341	1.00	38.89	B	O
	ATOM	562	C	SER	B	180	33.399	55.197	79.371	1.00	37.66	B	C
	ATOM	563	O	SER	B	180	32.653	55.306	78.400	1.00	38.36	B	O
30	ATOM	564	N	TYR	B	181	34.095	56.208	79.863	1.00	36.95	B	N
	ATOM	565	CA	TYR	B	181	34.036	57.539	79.293	1.00	38.05	B	C
	ATOM	566	CB	TYR	B	181	34.512	58.556	80.335	1.00	43.62	B	C
	ATOM	567	CG	TYR	B	181	33.618	59.762	80.514	1.00	49.10	B	C
	ATOM	568	CD1	TYR	B	181	34.157	61.051	80.541	1.00	52.53	B	C
35	ATOM	569	CE1	TYR	B	181	33.344	62.175	80.738	1.00	56.87	B	C
	ATOM	570	CD2	TYR	B	181	32.240	59.617	80.685	1.00	53.06	B	C
	ATOM	571	CE2	TYR	B	181	31.412	60.733	80.883	1.00	57.51	B	C
	ATOM	572	CZ	TYR	B	181	31.970	62.010	80.911	1.00	58.94	B	C
	ATOM	573	OH	TYR	B	181	31.158	63.113	81.118	1.00	58.06	B	O
40	ATOM	574	C	TYR	B	181	34.945	57.595	78.069	1.00	34.85	B	C
	ATOM	575	O	TYR	B	181	36.058	57.074	78.093	1.00	34.33	B	O
	ATOM	576	N	PRO	B	182	34.478	58.216	76.975	1.00	33.72	B	N
	ATOM	577	CD	PRO	B	182	33.165	58.845	76.757	1.00	31.35	B	C
	ATOM	578	CA	PRO	B	182	35.332	58.293	75.785	1.00	32.21	B	C
45	ATOM	579	CB	PRO	B	182	34.500	59.103	74.788	1.00	30.38	B	C
	ATOM	580	CG	PRO	B	182	33.416	59.736	75.592	1.00	29.41	B	C
	ATOM	581	C	PRO	B	182	36.656	58.979	76.117	1.00	32.80	B	C
	ATOM	582	O	PRO	B	182	36.753	59.683	77.126	1.00	36.04	B	O
	ATOM	583	N	VAL	B	183	37.671	58.760	75.283	1.00	30.66	B	N
50	ATOM	584	CA	VAL	B	183	38.982	59.375	75.480	1.00	28.79	B	C
	ATOM	585	CB	VAL	B	183	40.094	58.312	75.640	1.00	27.90	B	C
	ATOM	586	CG1	VAL	B	183	41.392	58.973	76.057	1.00	24.75	B	C
	ATOM	587	CG2	VAL	B	183	39.683	57.280	76.666	1.00	28.04	B	C
	ATOM	588	C	VAL	B	183	39.325	60.259	74.282	1.00	29.11	B	C
55	ATOM	589	O	VAL	B	183	39.727	59.766	73.230	1.00	27.69	B	O
	ATOM	590	N	PHE	B	184	39.147	61.565	74.447	1.00	29.86	B	N
	ATOM	591	CA	PHE	B	184	39.438	62.527	73.393	1.00	32.47	B	C
	ATOM	592	CB	PHE	B	184	38.578	63.777	73.568	1.00	37.52	B	C
	ATOM	593	CG	PHE	B	184	37.127	63.568	73.251	1.00	43.27	B	C
60	ATOM	594	CD1	PHE	B	184	36.538	64.228	72.172	1.00	47.81	B	C
	ATOM	595	CD2	PHE	B	184	36.344	62.721	74.030	1.00	43.95	B	C
	ATOM	596	CE1	PHE	B	184	35.182	64.044	71.874	1.00	50.93	B	C
	ATOM	597	CE2	PHE	B	184	34.990	62.528	73.744	1.00	45.52	B	C
	ATOM	598	CZ	PHE	B	184	34.408	63.190	72.666	1.00	48.21	B	C
65	ATOM	599	C	PHE	B	184	40.901	62.919	73.494	1.00	31.89	B	C
	ATOM	600	O	PHE	B	184	41.382	63.210	74.581	1.00	33.69	B	O
	ATOM	601	N	THR	B	185	41.622	62.934	72.379	1.00	30.48	B	N
	ATOM	602	CA	THR	B	185	43.024	63.309	72.457	1.00	30.58	B	C

	ATOM	603	CB	THR	B	185	43.742	63.152	71.085	1.00	26.62	B	C
	ATOM	604	OG1	THR	B	185	44.424	64.363	70.743	1.00	25.44	B	O
	ATOM	605	CG2	THR	B	185	42.755	62.788	70.011	1.00	26.27	B	C
5	ATOM	606	C	THR	B	185	43.102	64.748	72.979	1.00	31.26	B	C
	ATOM	607	O	THR	B	185	42.338	65.619	72.556	1.00	31.45	B	O
	ATOM	608	N	PRO	B	186	44.013	65.003	73.933	1.00	32.64	B	N
	ATOM	609	CD	PRO	B	186	44.944	64.011	74.498	1.00	31.64	B	C
	ATOM	610	CA	PRO	B	186	44.202	66.327	74.540	1.00	33.09	B	C
10	ATOM	611	CB	PRO	B	186	45.316	66.103	75.564	1.00	31.76	B	C
	ATOM	612	CG	PRO	B	186	46.019	64.868	75.092	1.00	34.42	B	C
	ATOM	613	C	PRO	B	186	44.544	67.456	73.584	1.00	34.02	B	C
	ATOM	614	O	PRO	B	186	45.075	67.232	72.494	1.00	34.33	B	O
	ATOM	615	N	ALA	B	187	44.231	68.676	74.007	1.00	33.62	B	N
15	ATOM	616	CA	ALA	B	187	44.527	69.853	73.210	1.00	35.45	B	C
	ATOM	617	CB	ALA	B	187	43.842	71.077	73.808	1.00	30.34	B	C
	ATOM	618	C	ALA	B	187	46.042	70.036	73.232	1.00	37.58	B	C
	ATOM	619	O	ALA	B	187	46.677	69.848	74.269	1.00	39.06	B	O
	ATOM	620	N	LEU	B	188	46.632	70.378	72.093	1.00	39.56	B	N
20	ATOM	621	CA	LEU	B	188	48.068	70.585	72.068	1.00	42.38	B	C
	ATOM	622	CB	LEU	B	188	48.625	70.479	70.642	1.00	43.21	B	C
	ATOM	623	CG	LEU	B	188	47.755	70.893	69.461	1.00	45.64	B	C
	ATOM	624	CD1	LEU	B	188	48.395	72.087	68.754	1.00	43.50	B	C
	ATOM	625	CD2	LEU	B	188	47.602	69.707	68.501	1.00	46.62	B	C
25	ATOM	626	C	LEU	B	188	48.328	71.970	72.635	1.00	44.09	B	C
	ATOM	627	O	LEU	B	188	47.511	72.877	72.462	1.00	42.70	B	O
	ATOM	628	N	LYS	B	189	49.453	72.123	73.329	1.00	46.29	B	N
	ATOM	629	CA	LYS	B	189	49.822	73.400	73.929	1.00	50.12	B	C
	ATOM	630	CB	LYS	B	189	51.119	73.252	74.715	1.00	47.89	B	C
30	ATOM	631	CG	LYS	B	189	51.168	71.996	75.563	1.00	48.12	B	C
	ATOM	632	CD	LYS	B	189	50.695	72.275	76.978	1.00	52.14	B	C
	ATOM	633	CE	LYS	B	189	49.436	71.486	77.314	1.00	53.90	B	C
	ATOM	634	NZ	LYS	B	189	49.719	70.031	77.490	1.00	53.78	B	N
	ATOM	635	C	LYS	B	189	49.993	74.482	72.871	1.00	54.45	B	C
35	ATOM	636	O	LYS	B	189	50.114	74.187	71.677	1.00	56.30	B	O
	ATOM	637	N	LYS	B	190	49.987	75.737	73.308	1.00	58.12	B	N
	ATOM	638	CA	LYS	B	190	50.151	76.854	72.384	1.00	62.62	B	C
	ATOM	639	CB	LYS	B	190	50.260	78.177	73.156	1.00	63.04	B	C
	ATOM	640	CG	LYS	B	190	50.043	79.433	72.309	1.00	63.49	B	C
40	ATOM	641	CD	LYS	B	190	51.070	80.519	72.636	1.00	64.82	B	C
	ATOM	642	CE	LYS	B	190	51.130	80.826	74.136	1.00	65.85	B	C
	ATOM	643	NZ	LYS	B	190	52.525	80.774	74.681	1.00	64.65	B	N
	ATOM	644	C	LYS	B	190	51.438	76.598	71.607	1.00	62.23	B	C
	ATOM	645	O	LYS	B	190	52.493	76.361	72.208	1.00	61.80	B	O
45	ATOM	646	N	GLY	B	191	51.352	76.629	70.280	1.00	61.60	B	N
	ATOM	647	CA	GLY	B	191	52.536	76.388	69.476	1.00	61.20	B	C
	ATOM	648	C	GLY	B	191	53.246	75.096	69.859	1.00	59.53	B	C
	ATOM	649	O	GLY	B	191	54.195	75.087	70.655	1.00	57.62	B	O
	ATOM	650	N	GLU	B	192	52.768	73.993	69.295	1.00	57.00	B	N
50	ATOM	651	CA	GLU	B	192	53.343	72.679	69.546	1.00	51.89	B	C
	ATOM	652	CB	GLU	B	192	52.576	71.953	70.658	1.00	50.04	B	C
	ATOM	653	CG	GLU	B	192	53.162	70.599	71.040	1.00	47.63	B	C
	ATOM	654	CD	GLU	B	192	52.206	69.759	71.878	1.00	49.74	B	C
	ATOM	655	OE1	GLU	B	192	52.548	68.602	72.215	1.00	47.12	B	O
55	ATOM	656	OE2	GLU	B	192	51.107	70.256	72.202	1.00	50.91	B	O
	ATOM	657	C	GLU	B	192	53.217	71.915	68.240	1.00	49.53	B	C
	ATOM	658	O	GLU	B	192	52.325	72.200	67.432	1.00	52.23	B	O
	ATOM	659	N	ASP	B	193	54.111	70.957	68.022	1.00	43.41	B	N
	ATOM	660	CA	ASP	B	193	54.071	70.177	66.798	1.00	39.71	B	C
60	ATOM	661	CB	ASP	B	193	55.368	69.385	66.631	1.00	39.11	B	C
	ATOM	662	CG	ASP	B	193	55.550	68.850	65.224	1.00	40.69	B	C
	ATOM	663	OD1	ASP	B	193	55.989	67.690	65.092	1.00	41.96	B	O
	ATOM	664	OD2	ASP	B	193	55.257	69.582	64.252	1.00	41.13	B	O
	ATOM	665	C	ASP	B	193	52.877	69.235	66.841	1.00	35.11	B	C
65	ATOM	666	O	ASP	B	193	52.803	68.347	67.689	1.00	33.18	B	O
	ATOM	667	N	PRO	B	194	51.912	69.429	65.931	1.00	32.34	B	N
	ATOM	668	CD	PRO	B	194	51.857	70.451	64.876	1.00	30.41	B	C
	ATOM	669	CA	PRO	B	194	50.735	68.558	65.915	1.00	29.68	B	C
	ATOM	670	CB	PRO	B	194	49.754	69.282	64.993	1.00	27.53	B	C

	ATOM	671	CG	PRO	B	194	50.398	70.601	64.648	1.00	29.58	B	C
	ATOM	672	C	PRO	B	194	51.084	67.171	65.390	1.00	30.52	B	C
	ATOM	673	O	PRO	B	194	50.297	66.233	65.517	1.00	30.22	B	O
	ATOM	674	N	PHE	B	195	52.274	67.039	64.816	1.00	30.39	B	N
5	ATOM	675	CA	PHE	B	195	52.691	65.768	64.247	1.00	32.56	B	C
	ATOM	676	CB	PHE	B	195	53.036	65.974	62.768	1.00	28.39	B	C
	ATOM	677	CG	PHE	B	195	51.968	66.704	62.007	1.00	25.44	B	C
	ATOM	678	CD1	PHE	B	195	50.766	66.074	61.693	1.00	25.38	B	C
10	ATOM	679	CD2	PHE	B	195	52.135	68.033	61.654	1.00	23.11	B	C
	ATOM	680	CE1	PHE	B	195	49.746	66.762	61.040	1.00	22.46	B	C
	ATOM	681	CE2	PHE	B	195	51.120	68.725	61.001	1.00	24.66	B	C
	ATOM	682	CZ	PHE	B	195	49.923	68.086	60.695	1.00	22.12	B	C
	ATOM	683	C	PHE	B	195	53.844	65.082	64.971	1.00	35.01	B	C
	ATOM	684	O	PHE	B	195	54.585	64.308	64.362	1.00	35.18	B	O
15	ATOM	685	N	ARG	B	196	53.979	65.354	66.269	1.00	36.86	B	N
	ATOM	686	CA	ARG	B	196	55.034	64.756	67.090	1.00	36.39	B	C
	ATOM	687	CB	ARG	B	196	54.897	65.203	68.545	1.00	38.83	B	C
	ATOM	688	CG	ARG	B	196	54.858	66.706	68.722	1.00	46.34	B	C
	ATOM	689	CD	ARG	B	196	54.926	67.083	70.188	1.00	51.02	B	C
20	ATOM	690	NE	ARG	B	196	55.909	66.278	70.905	1.00	55.08	B	N
	ATOM	691	CZ	ARG	B	196	56.373	66.572	72.113	1.00	56.75	B	C
	ATOM	692	NH1	ARG	B	196	55.942	67.656	72.745	1.00	56.09	B	N
	ATOM	693	NH2	ARG	B	196	57.272	65.786	72.688	1.00	58.20	B	N
	ATOM	694	C	ARG	B	196	54.986	63.236	67.036	1.00	35.46	B	C
25	ATOM	695	O	ARG	B	196	53.923	62.632	67.139	1.00	34.77	B	O
	ATOM	696	N	THR	B	197	56.149	62.617	66.900	1.00	37.43	B	N
	ATOM	697	CA	THR	B	197	56.217	61.168	66.821	1.00	39.96	B	C
	ATOM	698	CB	THR	B	197	56.756	60.742	65.439	1.00	39.34	B	C
	ATOM	699	OG1	THR	B	197	56.479	59.355	65.224	1.00	40.72	B	O
30	ATOM	700	CG2	THR	B	197	58.259	60.986	65.349	1.00	38.40	B	C
	ATOM	701	C	THR	B	197	57.088	60.545	67.915	1.00	42.00	B	C
	ATOM	702	O	THR	B	197	57.401	59.351	67.863	1.00	42.26	B	O
	ATOM	703	N	ASP	B	198	57.455	61.348	68.913	1.00	41.97	B	N
	ATOM	704	CA	ASP	B	198	58.318	60.889	70.000	1.00	42.14	B	C
35	ATOM	705	CB	ASP	B	198	59.305	61.992	70.368	1.00	41.50	B	C
	ATOM	706	CG	ASP	B	198	58.614	63.269	70.791	1.00	42.96	B	C
	ATOM	707	OD1	ASP	B	198	57.936	63.886	69.947	1.00	46.43	B	O
	ATOM	708	OD2	ASP	B	198	58.747	63.660	71.969	1.00	45.23	B	O
	ATOM	709	C	ASP	B	198	57.609	60.432	71.270	1.00	43.50	B	C
40	ATOM	710	O	ASP	B	198	58.259	59.994	72.221	1.00	44.17	B	O
	ATOM	711	N	ASN	B	199	56.286	60.528	71.295	1.00	43.03	B	N
	ATOM	712	CA	ASN	B	199	55.532	60.132	72.478	1.00	42.66	B	C
	ATOM	713	CB	ASN	B	199	54.705	61.319	72.975	1.00	45.42	B	C
	ATOM	714	CG	ASN	B	199	54.202	62.196	71.834	1.00	51.21	B	C
45	ATOM	715	OD1	ASN	B	199	54.076	63.417	71.983	1.00	54.57	B	O
	ATOM	716	ND2	ASN	B	199	53.915	61.576	70.685	1.00	49.30	B	N
	ATOM	717	C	ASN	B	199	54.615	58.938	72.211	1.00	40.28	B	C
	ATOM	718	O	ASN	B	199	53.617	58.743	72.909	1.00	39.69	B	O
	ATOM	719	N	LEU	B	200	54.962	58.136	71.208	1.00	35.98	B	N
50	ATOM	720	CA	LEU	B	200	54.159	56.972	70.854	1.00	31.08	B	C
	ATOM	721	CB	LEU	B	200	54.350	56.622	69.381	1.00	31.57	B	C
	ATOM	722	CG	LEU	B	200	53.899	57.606	68.303	1.00	33.19	B	C
	ATOM	723	CD1	LEU	B	200	54.519	57.208	66.979	1.00	31.54	B	C
	ATOM	724	CD2	LEU	B	200	52.384	57.601	68.191	1.00	32.35	B	C
55	ATOM	725	C	LEU	B	200	54.509	55.748	71.685	1.00	29.68	B	C
	ATOM	726	O	LEU	B	200	55.668	55.534	72.038	1.00	30.91	B	O
	ATOM	727	N	PRO	B	201	53.502	54.927	72.012	1.00	27.74	B	N
	ATOM	728	CD	PRO	B	201	52.084	55.127	71.677	1.00	26.97	B	C
	ATOM	729	CA	PRO	B	201	53.704	53.709	72.802	1.00	30.06	B	C
60	ATOM	730	CB	PRO	B	201	52.295	53.124	72.929	1.00	25.93	B	C
	ATOM	731	CG	PRO	B	201	51.384	54.269	72.675	1.00	24.79	B	C
	ATOM	732	C	PRO	B	201	54.667	52.745	72.109	1.00	32.43	B	C
	ATOM	733	O	PRO	B	201	55.128	53.009	71.005	1.00	35.17	B	O
	ATOM	734	N	GLU	B	202	54.968	51.628	72.759	1.00	34.26	B	N
65	ATOM	735	CA	GLU	B	202	55.873	50.641	72.192	1.00	36.24	B	C
	ATOM	736	CB	GLU	B	202	56.701	49.994	73.307	1.00	42.86	B	C
	ATOM	737	CG	GLU	B	202	57.174	50.974	74.381	1.00	52.45	B	C
	ATOM	738	CD	GLU	B	202	57.716	50.277	75.631	1.00	58.63	B	C

	ATOM	739	OE1	GLU	B	202	57.319	49.116	75.897	1.00	59.94	B	O
	ATOM	740	OE2	GLU	B	202	58.540	50.895	76.349	1.00	60.92	B	O
	ATOM	741	C	GLU	B	202	55.068	49.577	71.456	1.00	34.18	B	C
5	ATOM	742	O	GLU	B	202	53.876	49.415	71.705	1.00	32.24	B	O
	ATOM	743	N	ASN	B	203	55.714	48.856	70.546	1.00	33.29	B	N
	ATOM	744	CA	ASN	B	203	55.025	47.811	69.794	1.00	32.06	B	C
	ATOM	745	CB	ASN	B	203	55.896	47.315	68.640	1.00	31.14	B	C
	ATOM	746	CG	ASN	B	203	56.144	48.383	67.592	1.00	30.83	B	C
10	ATOM	747	OD1	ASN	B	203	56.845	48.149	66.613	1.00	33.77	B	O
	ATOM	748	ND2	ASN	B	203	55.574	49.560	67.794	1.00	28.72	B	N
	ATOM	749	C	ASN	B	203	54.695	46.650	70.717	1.00	32.68	B	C
	ATOM	750	O	ASN	B	203	55.417	46.389	71.679	1.00	34.21	B	O
	ATOM	751	N	LEU	B	204	53.607	45.949	70.421	1.00	32.69	B	N
15	ATOM	752	CA	LEU	B	204	53.182	44.821	71.242	1.00	34.29	B	C
	ATOM	753	CB	LEU	B	204	51.777	45.080	71.793	1.00	34.66	B	C
	ATOM	754	CG	LEU	B	204	51.702	46.197	72.836	1.00	35.60	B	C
	ATOM	755	CD1	LEU	B	204	50.251	46.509	73.143	1.00	37.14	B	C
	ATOM	756	CD2	LEU	B	204	52.443	45.773	74.096	1.00	31.38	B	C
20	ATOM	757	C	LEU	B	204	53.207	43.497	70.490	1.00	33.23	B	C
	ATOM	758	O	LEU	B	204	53.043	42.434	71.081	1.00	34.41	B	O
	ATOM	759	N	GLY	B	205	53.403	43.572	69.181	1.00	33.31	B	N
	ATOM	760	CA	GLY	B	205	53.466	42.375	68.367	1.00	30.99	B	C
	ATOM	761	C	GLY	B	205	52.386	41.322	68.545	1.00	30.90	B	C
25	ATOM	762	O	GLY	B	205	52.663	40.133	68.386	1.00	31.54	B	O
	ATOM	763	N	TYR	B	206	51.164	41.724	68.878	1.00	30.46	B	N
	ATOM	764	CA	TYR	B	206	50.091	40.741	69.019	1.00	31.94	B	C
	ATOM	765	CB	TYR	B	206	48.852	41.350	69.687	1.00	35.00	B	C
	ATOM	766	CG	TYR	B	206	49.020	41.743	71.141	1.00	38.27	B	C
30	ATOM	767	CD1	TYR	B	206	49.889	41.050	71.985	1.00	38.63	B	C
	ATOM	768	CE1	TYR	B	206	50.030	41.410	73.322	1.00	40.43	B	C
	ATOM	769	CD2	TYR	B	206	48.297	42.808	71.674	1.00	38.80	B	C
	ATOM	770	CE2	TYR	B	206	48.429	43.174	73.005	1.00	40.35	B	C
	ATOM	771	CZ	TYR	B	206	49.296	42.474	73.823	1.00	41.09	B	C
35	ATOM	772	OH	TYR	B	206	49.425	42.847	75.141	1.00	44.00	B	O
	ATOM	773	C	TYR	B	206	49.719	40.305	67.608	1.00	31.03	B	C
	ATOM	774	O	TYR	B	206	50.118	40.938	66.634	1.00	30.35	B	O
	ATOM	775	N	HIS	B	207	48.950	39.233	67.494	1.00	30.08	B	N
	ATOM	776	CA	HIS	B	207	48.537	38.748	66.188	1.00	30.75	B	C
40	ATOM	777	CB	HIS	B	207	48.739	37.232	66.099	1.00	34.36	B	C
	ATOM	778	CG	HIS	B	207	48.428	36.662	64.750	1.00	37.80	B	C
	ATOM	779	CD2	HIS	B	207	49.146	36.645	63.601	1.00	36.90	B	C
	ATOM	780	ND1	HIS	B	207	47.233	36.035	64.464	1.00	40.38	B	N
	ATOM	781	CE1	HIS	B	207	47.229	35.656	63.198	1.00	39.58	B	C
45	ATOM	782	NE2	HIS	B	207	48.377	36.014	62.653	1.00	37.79	B	N
	ATOM	783	C	HIS	B	207	47.070	39.098	65.942	1.00	31.09	B	C
	ATOM	784	O	HIS	B	207	46.187	38.679	66.696	1.00	29.16	B	O
	ATOM	785	N	LEU	B	208	46.817	39.873	64.888	1.00	31.02	B	N
	ATOM	786	CA	LEU	B	208	45.459	40.280	64.540	1.00	27.74	B	C
50	ATOM	787	CB	LEU	B	208	45.463	41.704	64.009	1.00	25.80	B	C
	ATOM	788	CG	LEU	B	208	46.021	42.746	64.973	1.00	23.68	B	C
	ATOM	789	CD1	LEU	B	208	46.263	44.030	64.212	1.00	26.30	B	C
	ATOM	790	CD2	LEU	B	208	45.059	42.973	66.123	1.00	20.07	B	C
	ATOM	791	C	LEU	B	208	44.849	39.355	63.500	1.00	27.18	B	C
55	ATOM	792	O	LEU	B	208	45.529	38.895	62.592	1.00	28.20	B	O
	ATOM	793	N	LYS	B	209	43.558	39.087	63.632	1.00	28.47	B	N
	ATOM	794	CA	LYS	B	209	42.878	38.205	62.699	1.00	28.55	B	C
	ATOM	795	CB	LYS	B	209	43.143	36.749	63.080	1.00	30.87	B	C
	ATOM	796	CG	LYS	B	209	42.633	35.732	62.075	1.00	33.93	B	C
60	ATOM	797	CD	LYS	B	209	42.744	34.309	62.626	1.00	37.92	B	C
	ATOM	798	CE	LYS	B	209	42.380	33.264	61.567	1.00	38.06	B	C
	ATOM	799	NZ	LYS	B	209	41.978	31.962	62.170	1.00	36.03	B	N
	ATOM	800	C	LYS	B	209	41.375	38.462	62.673	1.00	29.99	B	C
	ATOM	801	O	LYS	B	209	40.730	38.578	63.715	1.00	29.75	B	O
65	ATOM	802	N	MET	B	210	40.827	38.550	61.467	1.00	28.56	B	N
	ATOM	803	CA	MET	B	210	39.404	38.779	61.283	1.00	27.78	B	C
	ATOM	804	CB	MET	B	210	39.114	39.079	59.813	1.00	27.25	B	C
	ATOM	805	CG	MET	B	210	37.826	39.840	59.577	1.00	30.28	B	C
	ATOM	806	SD	MET	B	210	38.039	41.634	59.550	1.00	30.95	B	S

	ATOM	807	CE	MET	B	210	39.750	41.787	59.846	1.00	20.95	B	C
	ATOM	808	C	MET	B	210	38.642	37.536	61.703	1.00	27.37	B	C
	ATOM	809	O	MET	B	210	39.110	36.423	61.498	1.00	30.49	B	O
	ATOM	810	N	LYS	B	211	37.473	37.728	62.298	1.00	26.09	B	N
5	ATOM	811	CA	LYS	B	211	36.642	36.611	62.722	1.00	26.48	B	C
	ATOM	812	CB	LYS	B	211	36.961	36.210	64.159	1.00	30.10	B	C
	ATOM	813	CG	LYS	B	211	36.407	34.849	64.540	1.00	31.69	B	C
	ATOM	814	CD	LYS	B	211	35.628	34.929	65.831	1.00	36.27	B	C
	ATOM	815	CE	LYS	B	211	36.269	34.073	66.901	1.00	40.19	B	C
10	ATOM	816	NZ	LYS	B	211	35.789	32.667	66.807	1.00	45.15	B	N
	ATOM	817	C	LYS	B	211	35.173	36.999	62.615	1.00	27.76	B	C
	ATOM	818	O	LYS	B	211	34.664	37.789	63.408	1.00	29.39	B	O
	ATOM	819	N	ASP	B	212	34.498	36.442	61.617	1.00	28.12	B	N
	ATOM	820	CA	ASP	B	212	33.092	36.723	61.380	1.00	27.65	B	C
15	ATOM	821	CB	ASP	B	212	32.240	36.122	62.499	1.00	30.38	B	C
	ATOM	822	CG	ASP	B	212	32.217	34.603	62.461	1.00	33.35	B	C
	ATOM	823	OD1	ASP	B	212	32.371	34.027	61.359	1.00	35.06	B	O
	ATOM	824	OD2	ASP	B	212	32.047	33.982	63.531	1.00	33.87	B	O
	ATOM	825	C	ASP	B	212	32.795	38.213	61.238	1.00	25.02	B	C
20	ATOM	826	O	ASP	B	212	31.776	38.697	61.724	1.00	26.52	B	O
	ATOM	827	N	GLY	B	213	33.688	38.933	60.570	1.00	23.64	B	N
	ATOM	828	CA	GLY	B	213	33.485	40.354	60.352	1.00	21.83	B	C
	ATOM	829	C	GLY	B	213	34.105	41.289	61.369	1.00	22.60	B	C
	ATOM	830	O	GLY	B	213	34.003	42.510	61.225	1.00	20.96	B	O
25	ATOM	831	N	VAL	B	214	34.755	40.736	62.389	1.00	21.02	B	N
	ATOM	832	CA	VAL	B	214	35.360	41.565	63.422	1.00	21.30	B	C
	ATOM	833	CB	VAL	B	214	34.598	41.398	64.780	1.00	21.60	B	C
	ATOM	834	CG1	VAL	B	214	35.240	42.273	65.863	1.00	18.68	B	C
	ATOM	835	CG2	VAL	B	214	33.121	41.779	64.606	1.00	18.47	B	C
30	ATOM	836	C	VAL	B	214	36.839	41.248	63.630	1.00	22.64	B	C
	ATOM	837	O	VAL	B	214	37.246	40.089	63.565	1.00	21.35	B	O
	ATOM	838	N	VAL	B	215	37.642	42.283	63.873	1.00	22.29	B	N
	ATOM	839	CA	VAL	B	215	39.068	42.088	64.111	1.00	22.07	B	C
	ATOM	840	CB	VAL	B	215	39.865	43.401	63.968	1.00	21.02	B	C
35	ATOM	841	CG1	VAL	B	215	41.328	43.156	64.304	1.00	18.69	B	C
	ATOM	842	CG2	VAL	B	215	39.729	43.948	62.554	1.00	20.81	B	C
	ATOM	843	C	VAL	B	215	39.282	41.566	65.528	1.00	24.98	B	C
	ATOM	844	O	VAL	B	215	38.946	42.245	66.499	1.00	24.24	B	O
	ATOM	845	N	TYR	B	216	39.829	40.355	65.641	1.00	25.63	B	N
40	ATOM	846	CA	TYR	B	216	40.101	39.752	66.941	1.00	23.89	B	C
	ATOM	847	CB	TYR	B	216	39.628	38.306	66.967	1.00	22.31	B	C
	ATOM	848	CG	TYR	B	216	38.199	38.150	67.429	1.00	24.76	B	C
	ATOM	849	CD1	TYR	B	216	37.897	37.488	68.618	1.00	22.21	B	C
	ATOM	850	CE1	TYR	B	216	36.580	37.328	69.040	1.00	23.30	B	C
45	ATOM	851	CD2	TYR	B	216	37.145	38.653	66.670	1.00	26.09	B	C
	ATOM	852	CE2	TYR	B	216	35.819	38.500	67.085	1.00	26.56	B	C
	ATOM	853	CZ	TYR	B	216	35.544	37.835	68.270	1.00	25.11	B	C
	ATOM	854	OH	TYR	B	216	34.237	37.677	68.679	1.00	20.13	B	O
	ATOM	855	C	TYR	B	216	41.590	39.806	67.236	1.00	23.96	B	C
50	ATOM	856	O	TYR	B	216	42.413	39.639	66.340	1.00	21.81	B	O
	ATOM	857	N	ILE	B	217	41.930	40.040	68.500	1.00	28.39	B	N
	ATOM	858	CA	ILE	B	217	43.329	40.126	68.911	1.00	31.87	B	C
	ATOM	859	CB	ILE	B	217	43.585	41.382	69.770	1.00	31.69	B	C
	ATOM	860	CG2	ILE	B	217	45.078	41.586	69.954	1.00	33.32	B	C
55	ATOM	861	CG1	ILE	B	217	42.973	42.615	69.101	1.00	32.37	B	C
	ATOM	862	CD1	ILE	B	217	42.065	43.417	70.017	1.00	30.66	B	C
	ATOM	863	C	ILE	B	217	43.778	38.903	69.704	1.00	33.39	B	C
	ATOM	864	O	ILE	B	217	43.177	38.551	70.725	1.00	33.81	B	O
	ATOM	865	N	TYR	B	218	44.836	38.258	69.219	1.00	34.68	B	N
60	ATOM	866	CA	TYR	B	218	45.383	37.079	69.871	1.00	35.58	B	C
	ATOM	867	CB	TYR	B	218	45.460	35.919	68.884	1.00	30.29	B	C
	ATOM	868	CG	TYR	B	218	44.096	35.505	68.390	1.00	28.04	B	C
	ATOM	869	CD1	TYR	B	218	43.316	34.613	69.117	1.00	27.86	B	C
	ATOM	870	CE1	TYR	B	218	42.027	34.286	68.711	1.00	28.69	B	C
65	ATOM	871	CD2	TYR	B	218	43.555	36.061	67.231	1.00	28.65	B	C
	ATOM	872	CE2	TYR	B	218	42.267	35.741	66.812	1.00	29.04	B	C
	ATOM	873	CZ	TYR	B	218	41.508	34.855	67.561	1.00	30.56	B	C
	ATOM	874	OH	TYR	B	218	40.229	34.544	67.163	1.00	31.12	B	O

	ATOM	875	C	TYR	B	218	46.755	37.427	70.407	1.00	40.83	B	C
	ATOM	876	O	TYR	B	218	47.632	37.872	69.665	1.00	40.20	B	O
	ATOM	877	N	ALA	B	219	46.917	37.238	71.713	1.00	48.51	B	N
5	ATOM	878	CA	ALA	B	219	48.165	37.548	72.400	1.00	54.31	B	C
	ATOM	879	CB	ALA	B	219	48.123	37.009	73.832	1.00	58.34	B	C
	ATOM	880	C	ALA	B	219	49.366	36.984	71.667	1.00	55.29	B	C
	ATOM	881	O	ALA	B	219	49.385	35.805	71.332	1.00	53.11	B	O
	ATOM	882	N	ASN	B	220	50.347	37.857	71.427	1.00	58.77	B	N
10	ATOM	883	CA	ASN	B	220	51.610	37.548	70.746	1.00	62.15	B	C
	ATOM	884	CB	ASN	B	220	52.791	38.019	71.614	1.00	64.60	B	C
	ATOM	885	CG	ASN	B	220	52.342	38.725	72.896	1.00	67.65	B	C
	ATOM	886	OD1	ASN	B	220	52.733	39.865	73.157	1.00	70.87	B	O
	ATOM	887	ND2	ASN	B	220	51.523	38.047	73.699	1.00	68.66	B	N
15	ATOM	888	C	ASN	B	220	51.794	36.072	70.394	1.00	63.18	B	C
	ATOM	889	O	ASN	B	220	52.822	35.463	70.716	1.00	63.24	B	O
	ATOM	890	N	GLU	B	221	50.806	35.506	69.710	1.00	62.19	B	N
	ATOM	891	CA	GLU	B	221	50.857	34.101	69.350	1.00	61.64	B	C
	ATOM	892	CB	GLU	B	221	50.325	33.239	70.498	1.00	63.06	B	C
20	ATOM	893	CG	GLU	B	221	51.378	32.517	71.296	1.00	66.26	B	C
	ATOM	894	CD	GLU	B	221	50.819	31.901	72.572	1.00	71.10	B	C
	ATOM	895	OE1	GLU	B	221	49.805	31.172	72.487	1.00	71.66	B	O
	ATOM	896	OE2	GLU	B	221	51.391	32.145	73.660	1.00	73.92	B	C
	ATOM	897	C	GLU	B	221	50.014	33.834	68.128	1.00	61.22	B	O
25	ATOM	898	O	GLU	B	221	48.806	34.082	68.128	1.00	59.48	B	O
	ATOM	899	N	ALA	B	222	50.653	33.325	67.082	1.00	60.16	B	N
	ATOM	900	CA	ALA	B	222	49.927	32.980	65.877	1.00	59.02	B	C
	ATOM	901	CB	ALA	B	222	50.896	32.627	64.755	1.00	58.48	B	C
	ATOM	902	C	ALA	B	222	49.094	31.763	66.288	1.00	59.12	B	C
30	ATOM	903	O	ALA	B	222	48.482	31.093	65.459	1.00	57.30	B	O
	ATOM	904	N	ALA	B	223	49.093	31.494	67.594	1.00	60.89	B	N
	ATOM	905	CA	ALA	B	223	48.336	30.397	68.182	1.00	61.68	B	C
	ATOM	906	CB	ALA	B	223	48.828	30.121	69.592	1.00	60.71	B	C
	ATOM	907	C	ALA	B	223	46.861	30.799	68.205	1.00	64.14	B	C
35	ATOM	908	O	ALA	B	223	46.132	30.528	69.165	1.00	62.51	B	O
	ATOM	909	N	ALA	B	224	46.445	31.482	67.142	1.00	64.65	B	N
	ATOM	910	CA	ALA	B	224	45.065	31.908	66.984	1.00	63.55	B	C
	ATOM	911	CB	ALA	B	224	44.977	33.043	65.977	1.00	61.42	B	C
	ATOM	912	C	ALA	B	224	44.338	30.679	66.460	1.00	64.63	B	C
40	ATOM	913	O	ALA	B	224	43.118	30.697	66.273	1.00	63.90	B	O
	ATOM	914	N	GLY	B	225	45.114	29.619	66.210	1.00	64.92	B	N
	ATOM	915	CA	GLY	B	225	44.557	28.364	65.731	1.00	64.74	B	C
	ATOM	916	C	GLY	B	225	43.501	27.971	66.738	1.00	65.55	B	C
	ATOM	917	O	GLY	B	225	42.386	27.573	66.386	1.00	65.58	B	O
45	ATOM	918	N	LYS	B	226	43.870	28.080	68.010	1.00	64.14	B	N
	ATOM	919	CA	LYS	B	226	42.941	27.807	69.088	1.00	64.20	B	C
	ATOM	920	CB	LYS	B	226	43.681	27.316	70.336	1.00	65.46	B	C
	ATOM	921	CG	LYS	B	226	42.907	26.283	71.149	1.00	67.38	B	C
	ATOM	922	CD	LYS	B	226	43.222	24.861	70.690	1.00	70.32	B	C
50	ATOM	923	CE	LYS	B	226	42.955	23.839	71.792	1.00	69.91	B	C
	ATOM	924	NZ	LYS	B	226	44.199	23.489	72.542	1.00	70.39	B	N
	ATOM	925	C	LYS	B	226	42.330	29.182	69.338	1.00	63.82	B	C
	ATOM	926	O	LYS	B	226	43.048	30.143	69.636	1.00	65.34	B	O
	ATOM	927	N	ASP	B	227	41.017	29.288	69.177	1.00	60.65	B	N
55	ATOM	928	CA	ASP	B	227	40.340	30.556	69.387	1.00	57.10	B	C
	ATOM	929	CB	ASP	B	227	38.852	30.407	69.092	1.00	59.46	B	C
	ATOM	930	CG	ASP	B	227	38.414	31.236	67.904	1.00	62.82	B	C
	ATOM	931	OD1	ASP	B	227	38.157	30.640	66.831	1.00	61.95	B	O
	ATOM	932	OD2	ASP	B	227	38.332	32.480	68.048	1.00	61.80	B	O
60	ATOM	933	C	ASP	B	227	40.542	31.036	70.814	1.00	54.41	B	C
	ATOM	934	O	ASP	B	227	39.660	30.893	71.659	1.00	54.99	B	O
	ATOM	935	N	GLU	B	228	41.712	31.606	71.078	1.00	51.59	B	N
	ATOM	936	CA	GLU	B	228	42.038	32.103	72.406	1.00	48.65	B	C
	ATOM	937	CB	GLU	B	228	43.126	31.240	73.043	1.00	50.66	B	C
65	ATOM	938	CG	GLU	B	228	42.585	30.009	73.753	1.00	54.46	B	C
	ATOM	939	CD	GLU	B	228	43.554	28.835	73.734	1.00	56.19	B	C
	ATOM	940	OE1	GLU	B	228	44.780	29.064	73.857	1.00	57.01	B	O
	ATOM	941	OE2	GLU	B	228	43.083	27.685	73.600	1.00	55.11	B	O
	ATOM	942	C	GLU	B	228	42.507	33.542	72.320	1.00	45.44	B	C

5	ATOM	943	O	GLU	B	228	43.688	33.840	72.527	1.00	46.20	B	O
	ATOM	944	N	PRO	B	229	41.583	34.460	72.004	1.00	41.18	B	N
	ATOM	945	CD	PRO	B	229	40.156	34.226	71.720	1.00	38.72	B	C
	ATOM	946	CA	PRO	B	229	41.941	35.875	71.898	1.00	38.36	B	C
	ATOM	947	CB	PRO	B	229	40.693	36.520	71.308	1.00	38.59	B	C
	ATOM	948	CG	PRO	B	229	39.579	35.603	71.690	1.00	36.80	B	C
	ATOM	949	C	PRO	B	229	42.305	36.456	73.250	1.00	34.98	B	C
	ATOM	950	O	PRO	B	229	41.965	35.892	74.279	1.00	31.89	B	O
10	ATOM	951	N	LYS	B	230	43.009	37.579	73.238	1.00	36.16	B	N
	ATOM	952	CA	LYS	B	230	43.400	38.236	74.474	1.00	39.59	B	C
	ATOM	953	CB	LYS	B	230	44.173	39.521	74.178	1.00	39.86	B	C
	ATOM	954	CG	LYS	B	230	45.679	39.357	74.185	1.00	40.47	B	C
15	ATOM	955	CD	LYS	B	230	46.230	39.507	75.585	1.00	45.97	B	C
	ATOM	956	CE	LYS	B	230	47.342	40.537	75.631	1.00	48.78	B	C
	ATOM	957	NZ	LYS	B	230	48.682	39.879	75.659	1.00	53.58	B	N
	ATOM	958	C	LYS	B	230	42.123	38.580	75.222	1.00	41.82	B	C
20	ATOM	959	O	LYS	B	230	41.152	39.036	74.616	1.00	44.73	B	O
	ATOM	960	N	PRO	B	231	42.102	38.358	76.548	1.00	41.90	B	N
	ATOM	961	CD	PRO	B	231	43.198	37.808	77.366	1.00	42.17	B	C
	ATOM	962	CA	PRO	B	231	40.923	38.657	77.364	1.00	40.40	B	C
25	ATOM	963	CB	PRO	B	231	41.474	38.668	78.782	1.00	40.68	B	C
	ATOM	964	CG	PRO	B	231	42.569	37.661	78.730	1.00	41.70	B	C
	ATOM	965	C	PRO	B	231	40.303	39.987	76.966	1.00	38.73	B	C
	ATOM	966	O	PRO	B	231	40.980	41.017	76.931	1.00	36.46	B	O
30	ATOM	967	N	LEU	B	232	39.011	39.948	76.661	1.00	38.05	B	N
	ATOM	968	CA	LEU	B	232	38.286	41.139	76.243	1.00	37.77	B	C
	ATOM	969	CB	LEU	B	232	38.950	41.722	74.995	1.00	38.48	B	C
	ATOM	970	CG	LEU	B	232	38.646	43.155	74.568	1.00	39.63	B	C
35	ATOM	971	CD1	LEU	B	232	39.905	43.793	73.984	1.00	38.26	B	C
	ATOM	972	CD2	LEU	B	232	37.525	43.146	73.539	1.00	41.50	B	C
	ATOM	973	C	LEU	B	232	36.827	40.805	75.944	1.00	37.52	B	C
	ATOM	974	O	LEU	B	232	36.497	39.694	75.530	1.00	36.42	B	O
40	ATOM	975	N	LEU	B	233	35.950	41.771	76.178	1.00	38.73	B	N
	ATOM	976	CA	LEU	B	233	34.530	41.588	75.905	1.00	38.31	B	C
	ATOM	977	CB	LEU	B	233	33.690	42.498	76.807	1.00	41.80	B	C
	ATOM	978	CG	LEU	B	233	33.956	44.001	76.638	1.00	46.85	B	C
45	ATOM	979	CD1	LEU	B	233	32.742	44.792	77.135	1.00	45.67	B	C
	ATOM	980	CD2	LEU	B	233	35.245	44.400	77.385	1.00	45.54	B	C
	ATOM	981	C	LEU	B	233	34.316	41.969	74.443	1.00	36.60	B	C
	ATOM	982	O	LEU	B	233	34.486	43.129	74.061	1.00	35.37	B	O
50	ATOM	983	N	TYR	B	234	33.972	40.987	73.621	1.00	34.06	B	N
	ATOM	984	CA	TYR	B	234	33.746	41.236	72.208	1.00	30.70	B	C
	ATOM	985	CB	TYR	B	234	34.324	40.085	71.374	1.00	27.74	B	C
	ATOM	986	CG	TYR	B	234	35.834	40.049	71.360	1.00	28.95	B	C
55	ATOM	987	CD1	TYR	B	234	36.542	39.485	72.421	1.00	31.33	B	C
	ATOM	988	CE1	TYR	B	234	37.943	39.461	72.430	1.00	30.74	B	C
	ATOM	989	CD2	TYR	B	234	36.565	40.593	70.296	1.00	28.25	B	C
	ATOM	990	CE2	TYR	B	234	37.970	40.574	70.296	1.00	28.66	B	C
60	ATOM	991	CZ	TYR	B	234	38.649	40.008	71.369	1.00	29.98	B	C
	ATOM	992	OH	TYR	B	234	40.027	39.996	71.401	1.00	30.31	B	O
	ATOM	993	C	TYR	B	234	32.250	41.379	71.951	1.00	29.41	B	C
	ATOM	994	O	TYR	B	234	31.430	41.019	72.798	1.00	29.52	B	O
65	ATOM	995	N	PRO	B	235	31.875	41.933	70.789	1.00	27.60	B	N
	ATOM	996	CD	PRO	B	235	32.747	42.453	69.722	1.00	27.29	B	C
	ATOM	997	CA	PRO	B	235	30.457	42.097	70.465	1.00	26.88	B	C
	ATOM	998	CB	PRO	B	235	30.475	42.688	69.055	1.00	27.25	B	C
70	ATOM	999	CG	PRO	B	235	31.826	43.312	68.922	1.00	25.79	B	C
	ATOM	1000	C	PRO	B	235	29.737	40.754	70.499	1.00	24.86	B	C
	ATOM	1001	O	PRO	B	235	30.308	39.735	70.130	1.00	26.65	B	O
	ATOM	1002	N	ASN	B	236	28.487	40.757	70.946	1.00	24.53	B	N
75	ATOM	1003	CA	ASN	B	236	27.687	39.540	71.015	1.00	25.58	B	C
	ATOM	1004	CB	ASN	B	236	27.203	39.320	72.443	1.00	25.49	B	C
	ATOM	1005	CG	ASN	B	236	26.503	37.999	72.620	1.00	27.68	B	C
	ATOM	1006	OD1	ASN	B	236	25.721	37.578	71.768	1.00	28.92	B	O
80	ATOM	1007	ND2	ASN	B	236	26.777	37.333	73.735	1.00	28.44	B	N
	ATOM	1008	C	ASN	B	236	26.493	39.704	70.077	1.00	25.97	B	C
	ATOM	1009	O	ASN	B	236	25.489	40.325	70.440	1.00	25.41	B	O
	ATOM	1010	N	MET	B	237	26.604	39.141	68.877	1.00	23.87	B	N

	ATOM	1011	CA	MET	B	237	25.550	39.263	67.882	1.00	25.71	B	C
	ATOM	1012	CB	MET	B	237	25.981	38.640	66.559	1.00	28.06	B	C
	ATOM	1013	CG	MET	B	237	25.191	39.188	65.382	1.00	32.90	B	C
5	ATOM	1014	SD	MET	B	237	25.676	38.470	63.812	1.00	40.21	B	S
	ATOM	1015	CE	MET	B	237	24.786	36.887	63.871	1.00	37.81	B	C
	ATOM	1016	C	MET	B	237	24.192	38.708	68.261	1.00	24.05	B	C
	ATOM	1017	O	MET	B	237	23.176	39.310	67.939	1.00	25.10	B	O
	ATOM	1018	N	GLU	B	238	24.151	37.562	68.924	1.00	24.91	B	N
10	ATOM	1019	CA	GLU	B	238	22.864	37.006	69.311	1.00	28.14	B	C
	ATOM	1020	CB	GLU	B	238	23.032	35.654	70.002	1.00	33.30	B	C
	ATOM	1021	CG	GLU	B	238	21.716	34.893	70.125	1.00	44.96	B	C
	ATOM	1022	CD	GLU	B	238	21.814	33.645	70.991	1.00	49.67	B	C
	ATOM	1023	OE1	GLU	B	238	20.798	33.290	71.633	1.00	50.79	B	O
15	ATOM	1024	OE2	GLU	B	238	22.900	33.022	71.027	1.00	52.11	B	O
	ATOM	1025	C	GLU	B	238	22.163	37.974	70.256	1.00	27.25	B	C
	ATOM	1026	O	GLU	B	238	20.966	38.232	70.131	1.00	26.03	B	O
	ATOM	1027	N	GLU	B	239	22.924	38.507	71.201	1.00	24.20	B	N
	ATOM	1028	CA	GLU	B	239	22.397	39.451	72.166	1.00	24.98	B	C
20	ATOM	1029	CB	GLU	B	239	23.493	39.818	73.171	1.00	28.15	B	C
	ATOM	1030	CG	GLU	B	239	23.070	40.808	74.242	1.00	31.00	B	C
	ATOM	1031	CD	GLU	B	239	24.231	41.239	75.116	1.00	33.65	B	C
	ATOM	1032	OE1	GLU	B	239	24.159	42.340	75.703	1.00	33.02	B	O
	ATOM	1033	OE2	GLU	B	239	25.217	40.477	75.213	1.00	33.96	B	O
25	ATOM	1034	C	GLU	B	239	21.912	40.703	71.439	1.00	24.81	B	C
	ATOM	1035	O	GLU	B	239	20.850	41.242	71.740	1.00	23.15	B	O
	ATOM	1036	N	PHE	B	240	22.702	41.158	70.473	1.00	23.58	B	N
	ATOM	1037	CA	PHE	B	240	22.359	42.347	69.706	1.00	22.65	B	C
	ATOM	1038	CB	PHE	B	240	23.473	42.685	68.723	1.00	20.49	B	C
30	ATOM	1039	CG	PHE	B	240	23.190	43.902	67.898	1.00	19.26	B	C
	ATOM	1040	CD1	PHE	B	240	22.318	43.840	66.819	1.00	20.15	B	C
	ATOM	1041	CD2	PHE	B	240	23.795	45.115	68.200	1.00	19.87	B	C
	ATOM	1042	CE1	PHE	B	240	22.052	44.975	66.048	1.00	19.84	B	C
	ATOM	1043	CE2	PHE	B	240	23.538	46.251	67.440	1.00	20.62	B	C
35	ATOM	1044	CZ	PHE	B	240	22.663	46.179	66.360	1.00	18.91	B	C
	ATOM	1045	C	PHE	B	240	21.057	42.185	68.934	1.00	22.23	B	C
	ATOM	1046	O	PHE	B	240	20.201	43.070	68.947	1.00	21.70	B	O
	ATOM	1047	N	LEU	B	241	20.920	41.059	68.244	1.00	21.91	B	N
	ATOM	1048	CA	LEU	B	241	19.719	40.793	67.469	1.00	21.89	B	C
40	ATOM	1049	CB	LEU	B	241	19.891	39.508	66.658	1.00	20.87	B	C
	ATOM	1050	CG	LEU	B	241	20.920	39.594	65.525	1.00	21.34	B	C
	ATOM	1051	CD1	LEU	B	241	21.241	38.199	65.003	1.00	21.31	B	C
	ATOM	1052	CD2	LEU	B	241	20.378	40.472	64.418	1.00	19.12	B	C
	ATOM	1053	C	LEU	B	241	18.501	40.682	68.379	1.00	23.08	B	C
45	ATOM	1054	O	LEU	B	241	17.378	40.975	67.968	1.00	23.39	B	O
	ATOM	1055	N	ASP	B	242	18.723	40.271	69.621	1.00	23.49	B	N
	ATOM	1056	CA	ASP	B	242	17.622	40.140	70.570	1.00	25.89	B	C
	ATOM	1057	CB	ASP	B	242	18.081	39.394	71.828	1.00	31.81	B	C
	ATOM	1058	CG	ASP	B	242	18.265	37.906	71.589	1.00	39.05	B	C
50	ATOM	1059	OD1	ASP	B	242	17.998	37.442	70.456	1.00	42.61	B	O
	ATOM	1060	OD2	ASP	B	242	18.680	37.200	72.536	1.00	42.92	B	O
	ATOM	1061	C	ASP	B	242	17.104	41.514	70.966	1.00	24.11	B	C
	ATOM	1062	O	ASP	B	242	15.893	41.750	71.000	1.00	21.41	B	O
	ATOM	1063	N	ASP	B	243	18.034	42.414	71.273	1.00	23.12	B	N
55	ATOM	1064	CA	ASP	B	243	17.681	43.766	71.677	1.00	21.59	B	C
	ATOM	1065	CB	ASP	B	243	18.925	44.532	72.142	1.00	22.59	B	C
	ATOM	1066	CG	ASP	B	243	19.456	44.034	73.481	1.00	21.06	B	C
	ATOM	1067	OD1	ASP	B	243	18.671	43.450	74.249	1.00	21.09	B	O
	ATOM	1068	OD2	ASP	B	243	20.663	44.228	73.763	1.00	19.92	B	O
60	ATOM	1069	C	ASP	B	243	17.046	44.491	70.502	1.00	21.35	B	C
	ATOM	1070	O	ASP	B	243	16.104	45.264	70.676	1.00	19.48	B	O
	ATOM	1071	N	MET	B	244	17.560	44.224	69.305	1.00	21.35	B	N
	ATOM	1072	CA	MET	B	244	17.050	44.863	68.098	1.00	19.39	B	C
	ATOM	1073	CB	MET	B	244	17.921	44.510	66.902	1.00	19.77	B	C
65	ATOM	1074	CG	MET	B	244	17.345	44.984	65.588	1.00	19.12	B	C
	ATOM	1075	SD	MET	B	244	18.299	44.400	64.188	1.00	22.71	B	S
	ATOM	1076	CE	MET	B	244	17.615	42.765	63.981	1.00	17.07	B	C
	ATOM	1077	C	MET	B	244	15.623	44.451	67.801	1.00	19.45	B	C
	ATOM	1078	O	MET	B	244	14.786	45.283	67.457	1.00	17.22	B	O

	ATOM	1079	N	ASN	B	245	15.350	43.157	67.929	1.00	19.47	B	N
	ATOM	1080	CA	ASN	B	245	14.020	42.636	67.660	1.00	20.33	B	C
	ATOM	1081	CB	ASN	B	245	14.043	41.117	67.712	1.00	21.11	B	C
	ATOM	1082	CG	ASN	B	245	14.738	40.517	66.516	1.00	23.70	B	C
5	ATOM	1083	OD1	ASN	B	245	14.470	40.902	65.379	1.00	26.12	B	O
	ATOM	1084	ND2	ASN	B	245	15.644	39.576	66.762	1.00	25.27	B	N
	ATOM	1085	C	ASN	B	245	13.007	43.180	68.653	1.00	21.08	B	C
	ATOM	1086	O	ASN	B	245	11.813	43.282	68.353	1.00	20.25	B	O
10	ATOM	1087	N	PHE	B	246	13.495	43.523	69.840	1.00	20.79	B	N
	ATOM	1088	CA	PHE	B	246	12.651	44.075	70.883	1.00	19.49	B	C
	ATOM	1089	CB	PHE	B	246	13.397	44.117	72.221	1.00	19.51	B	C
	ATOM	1090	CG	PHE	B	246	12.810	45.097	73.193	1.00	21.84	B	C
	ATOM	1091	CD1	PHE	B	246	13.377	46.351	73.366	1.00	19.93	B	C
	ATOM	1092	CD2	PHE	B	246	11.652	44.784	73.896	1.00	24.53	B	C
15	ATOM	1093	CE1	PHE	B	246	12.803	47.273	74.213	1.00	21.11	B	C
	ATOM	1094	CE2	PHE	B	246	11.072	45.703	74.748	1.00	22.42	B	C
	ATOM	1095	CZ	PHE	B	246	11.648	46.949	74.907	1.00	22.40	B	C
	ATOM	1096	C	PHE	B	246	12.263	45.497	70.488	1.00	18.18	B	C
	ATOM	1097	O	PHE	B	246	11.099	45.882	70.572	1.00	18.64	B	O
20	ATOM	1098	N	LEU	B	247	13.252	46.278	70.073	1.00	14.46	B	N
	ATOM	1099	CA	LEU	B	247	13.004	47.649	69.670	1.00	17.19	B	C
	ATOM	1100	CB	LEU	B	247	14.330	48.349	69.363	1.00	15.57	B	C
	ATOM	1101	CG	LEU	B	247	15.204	48.662	70.584	1.00	11.81	B	C
	ATOM	1102	CD1	LEU	B	247	16.489	49.351	70.153	1.00	8.09	B	C
25	ATOM	1103	CD2	LEU	B	247	14.429	49.546	71.539	1.00	7.73	B	C
	ATOM	1104	C	LEU	B	247	12.090	47.675	68.446	1.00	20.03	B	C
	ATOM	1105	O	LEU	B	247	11.217	48.538	68.326	1.00	20.02	B	O
	ATOM	1106	N	LEU	B	248	12.286	46.719	67.542	1.00	22.31	B	N
	ATOM	1107	CA	LEU	B	248	11.472	46.647	66.337	1.00	23.06	B	C
30	ATOM	1108	CB	LEU	B	248	11.928	45.493	65.448	1.00	23.86	B	C
	ATOM	1109	CG	LEU	B	248	12.430	45.831	64.039	1.00	28.05	B	C
	ATOM	1110	CD1	LEU	B	248	13.038	47.236	63.999	1.00	26.99	B	C
	ATOM	1111	CD2	LEU	B	248	13.467	44.788	63.624	1.00	26.06	B	C
	ATOM	1112	C	LEU	B	248	10.019	46.451	66.717	1.00	22.03	B	C
35	ATOM	1113	O	LEU	B	248	9.132	47.083	66.155	1.00	24.50	B	O
	ATOM	1114	N	ALA	B	249	9.777	45.572	67.678	1.00	20.93	B	N
	ATOM	1115	CA	ALA	B	249	8.417	45.300	68.120	1.00	21.10	B	C
	ATOM	1116	CB	ALA	B	249	8.413	44.103	69.071	1.00	17.39	B	C
	ATOM	1117	C	ALA	B	249	7.832	46.530	68.812	1.00	21.64	B	C
40	ATOM	1118	O	ALA	B	249	6.684	46.924	68.573	1.00	22.02	B	O
	ATOM	1119	N	LEU	B	250	8.645	47.138	69.665	1.00	21.75	B	N
	ATOM	1120	CA	LEU	B	250	8.240	48.308	70.420	1.00	21.30	B	C
	ATOM	1121	CB	LEU	B	250	9.396	48.774	71.298	1.00	18.50	B	C
	ATOM	1122	CG	LEU	B	250	9.047	49.826	72.345	1.00	17.05	B	C
45	ATOM	1123	CD1	LEU	B	250	8.225	49.198	73.449	1.00	11.30	B	C
	ATOM	1124	CD2	LEU	B	250	10.326	50.435	72.890	1.00	14.44	B	C
	ATOM	1125	C	LEU	B	250	7.748	49.469	69.562	1.00	22.44	B	C
	ATOM	1126	O	LEU	B	250	6.595	49.874	69.685	1.00	24.56	B	O
	ATOM	1127	N	ILE	B	251	8.606	50.005	68.697	1.00	21.71	B	N
50	ATOM	1128	CA	ILE	B	251	8.210	51.142	67.864	1.00	22.34	B	C
	ATOM	1129	CB	ILE	B	251	9.352	51.583	66.909	1.00	21.27	B	C
	ATOM	1130	CG2	ILE	B	251	10.664	51.689	67.676	1.00	19.54	B	C
	ATOM	1131	CG1	ILE	B	251	9.479	50.600	65.747	1.00	21.82	B	C
	ATOM	1132	CD1	ILE	B	251	10.771	50.737	64.967	1.00	24.05	B	C
55	ATOM	1133	C	ILE	B	251	6.944	50.905	67.042	1.00	23.14	B	C
	ATOM	1134	O	ILE	B	251	6.357	51.851	66.513	1.00	24.35	B	O
	ATOM	1135	N	ALA	B	252	6.511	49.653	66.946	1.00	22.74	B	N
	ATOM	1136	CA	ALA	B	252	5.310	49.337	66.180	1.00	24.76	B	C
	ATOM	1137	CB	ALA	B	252	5.590	48.190	65.212	1.00	25.61	B	C
60	ATOM	1138	C	ALA	B	252	4.122	48.987	67.070	1.00	24.97	B	C
	ATOM	1139	O	ALA	B	252	3.054	48.635	66.572	1.00	26.86	B	O
	ATOM	1140	N	GLN	B	253	4.309	49.094	68.381	1.00	26.54	B	N
	ATOM	1141	CA	GLN	B	253	3.250	48.796	69.342	1.00	26.45	B	C
	ATOM	1142	CB	GLN	B	253	3.848	48.544	70.714	1.00	29.30	B	C
65	ATOM	1143	CG	GLN	B	253	3.548	47.178	71.267	1.00	33.94	B	C
	ATOM	1144	CD	GLN	B	253	4.496	46.808	72.379	1.00	36.17	B	C
	ATOM	1145	OE1	GLN	B	253	5.333	45.919	72.227	1.00	38.40	B	O
	ATOM	1146	NE2	GLN	B	253	4.376	47.494	73.510	1.00	38.28	B	N

	ATOM	1147	C	GLN	B	253	2.251	49.935	69.445	1.00	26.52	B	C
	ATOM	1148	O	GLN	B	253	2.614	51.066	69.760	1.00	25.99	B	O
	ATOM	1149	N	GLY	B	254	0.985	49.621	69.198	1.00	26.91	B	N
5	ATOM	1150	CA	GLY	B	254	-0.063	50.626	69.237	1.00	23.35	B	C
	ATOM	1151	C	GLY	B	254	-0.049	51.562	70.429	1.00	22.46	B	C
	ATOM	1152	O	GLY	B	254	0.078	52.774	70.257	1.00	24.32	B	O
	ATOM	1153	N	PRO	B	255	-0.186	51.034	71.655	1.00	20.44	B	N
	ATOM	1154	CD	PRO	B	255	-0.363	49.603	71.956	1.00	18.41	B	C
10	ATOM	1155	CA	PRO	B	255	-0.193	51.846	72.874	1.00	18.00	B	C
	ATOM	1156	CB	PRO	B	255	-0.330	50.815	73.988	1.00	17.39	B	C
	ATOM	1157	CG	PRO	B	255	-0.940	49.628	73.327	1.00	17.66	B	C
	ATOM	1158	C	PRO	B	255	1.026	52.738	73.064	1.00	19.53	B	C
	ATOM	1159	O	PRO	B	255	0.896	53.879	73.499	1.00	23.27	B	O
15	ATOM	1160	N	VAL	B	256	2.212	52.228	72.750	1.00	19.35	B	N
	ATOM	1161	CA	VAL	B	256	3.430	53.019	72.896	1.00	17.67	B	C
	ATOM	1162	CB	VAL	B	256	4.687	52.156	72.690	1.00	16.57	B	C
	ATOM	1163	CG1	VAL	B	256	5.927	52.992	72.931	1.00	11.80	B	C
	ATOM	1164	CG2	VAL	B	256	4.656	50.961	73.638	1.00	11.49	B	C
20	ATOM	1165	C	VAL	B	256	3.449	54.156	71.882	1.00	20.60	B	C
	ATOM	1166	O	VAL	B	256	3.956	55.246	72.161	1.00	22.68	B	O
	ATOM	1167	N	LYS	B	257	2.894	53.895	70.702	1.00	21.63	B	N
	ATOM	1168	CA	LYS	B	257	2.834	54.892	69.637	1.00	20.06	B	C
	ATOM	1169	CB	LYS	B	257	2.241	54.278	68.362	1.00	23.46	B	C
25	ATOM	1170	CG	LYS	B	257	3.235	54.070	67.234	1.00	23.46	B	C
	ATOM	1171	CD	LYS	B	257	3.043	52.721	66.578	1.00	24.30	B	C
	ATOM	1172	CE	LYS	B	257	2.114	52.820	65.380	1.00	29.74	B	C
	ATOM	1173	NZ	LYS	B	257	1.077	51.734	65.370	1.00	34.20	B	N
	ATOM	1174	C	LYS	B	257	1.951	56.034	70.094	1.00	18.74	B	C
30	ATOM	1175	O	LYS	B	257	2.286	57.204	69.910	1.00	18.08	B	O
	ATOM	1176	N	THR	B	258	0.819	55.683	70.695	1.00	17.60	B	N
	ATOM	1177	CA	THR	B	258	-0.128	56.679	71.179	1.00	18.35	B	C
	ATOM	1178	CB	THR	B	258	-1.421	56.013	71.633	1.00	19.62	B	C
	ATOM	1179	OG1	THR	B	258	-1.977	55.279	70.537	1.00	23.78	B	O
35	ATOM	1180	CG2	THR	B	258	-2.424	57.060	72.092	1.00	23.16	B	C
	ATOM	1181	C	THR	B	258	0.427	57.520	72.329	1.00	18.24	B	C
	ATOM	1182	O	THR	B	258	0.354	58.749	72.297	1.00	19.69	B	O
	ATOM	1183	N	TYR	B	259	0.983	56.864	73.342	1.00	15.87	B	N
	ATOM	1184	CA	TYR	B	259	1.543	57.581	74.480	1.00	12.67	B	C
40	ATOM	1185	CB	TYR	B	259	2.122	56.592	75.498	1.00	14.72	B	C
	ATOM	1186	CG	TYR	B	259	2.786	57.260	76.681	1.00	18.96	B	C
	ATOM	1187	CD1	TYR	B	259	4.175	57.373	76.751	1.00	18.78	B	C
	ATOM	1188	CE1	TYR	B	259	4.792	58.004	77.826	1.00	19.99	B	C
	ATOM	1189	CD2	TYR	B	259	2.024	57.801	77.725	1.00	17.66	B	C
45	ATOM	1190	CE2	TYR	B	259	2.632	58.433	78.802	1.00	17.80	B	C
	ATOM	1191	CZ	TYR	B	259	4.019	58.530	78.846	1.00	19.72	B	C
	ATOM	1192	OH	TYR	B	259	4.644	59.138	79.909	1.00	17.71	B	O
	ATOM	1193	C	TYR	B	259	2.629	58.557	74.036	1.00	11.43	B	C
	ATOM	1194	O	TYR	B	259	2.546	59.751	74.311	1.00	11.27	B	O
50	ATOM	1195	N	THR	B	260	3.644	58.048	73.343	1.00	10.47	B	N
	ATOM	1196	CA	THR	B	260	4.744	58.891	72.873	1.00	12.59	B	C
	ATOM	1197	CB	THR	B	260	5.819	58.053	72.122	1.00	12.25	B	C
	ATOM	1198	OG1	THR	B	260	5.237	57.401	70.986	1.00	12.86	B	O
	ATOM	1199	CG2	THR	B	260	6.399	56.995	73.046	1.00	10.11	B	C
55	ATOM	1200	C	THR	B	260	4.253	60.027	71.973	1.00	11.44	B	C
	ATOM	1201	O	THR	B	260	4.791	61.135	72.006	1.00	12.11	B	O
	ATOM	1202	N	HIS	B	261	3.220	59.758	71.182	1.00	13.55	B	N
	ATOM	1203	CA	HIS	B	261	2.662	60.775	70.299	1.00	15.20	B	C
	ATOM	1204	CB	HIS	B	261	1.581	60.170	69.403	1.00	18.77	B	C
60	ATOM	1205	CG	HIS	B	261	1.001	61.140	68.419	1.00	21.23	B	C
	ATOM	1206	CD2	HIS	B	261	1.579	61.847	67.418	1.00	19.63	B	C
	ATOM	1207	ND1	HIS	B	261	-0.337	61.478	68.406	1.00	21.93	B	N
	ATOM	1208	CE1	HIS	B	261	-0.558	62.350	67.440	1.00	20.30	B	C
	ATOM	1209	NE2	HIS	B	261	0.587	62.590	66.826	1.00	22.42	B	N
65	ATOM	1210	C	HIS	B	261	2.060	61.904	71.131	1.00	16.10	B	C
	ATOM	1211	O	HIS	B	261	2.221	63.081	70.807	1.00	17.24	B	O
	ATOM	1212	N	ARG	B	262	1.366	61.536	72.204	1.00	16.90	B	N
	ATOM	1213	CA	ARG	B	262	0.742	62.510	73.099	1.00	15.57	B	C
	ATOM	1214	CB	ARG	B	262	-0.159	61.788	74.099	1.00	17.94	B	C

	ATOM	1215	CG	ARG	B	262	-1.429	62.539	74.428	1.00	27.94	B	C
	ATOM	1216	CD	ARG	B	262	-2.221	61.847	75.526	1.00	32.90	B	C
	ATOM	1217	NE	ARG	B	262	-2.580	60.477	75.163	1.00	38.35	B	N
	ATOM	1218	CZ	ARG	B	262	-2.351	59.421	75.937	1.00	40.61	B	C
5	ATOM	1219	NH1	ARG	B	262	-1.764	59.577	77.122	1.00	39.66	B	N
	ATOM	1220	NH2	ARG	B	262	-2.707	58.208	75.530	1.00	38.80	B	N
	ATOM	1221	C	ARG	B	262	1.776	63.355	73.851	1.00	13.37	B	C
	ATOM	1222	O	ARG	B	262	1.589	64.561	74.032	1.00	14.75	B	O
	ATOM	1223	N	ARG	B	263	2.861	62.725	74.292	1.00	10.14	B	N
10	ATOM	1224	CA	ARG	B	263	3.910	63.438	75.016	1.00	9.92	B	C
	ATOM	1225	CB	ARG	B	263	4.919	62.444	75.594	1.00	8.97	B	C
	ATOM	1226	CG	ARG	B	263	4.318	61.379	76.513	1.00	8.75	B	C
	ATOM	1227	CD	ARG	B	263	3.462	61.987	77.626	1.00	3.09	B	C
	ATOM	1228	NE	ARG	B	263	4.095	63.157	78.222	1.00	6.36	B	N
15	ATOM	1229	CZ	ARG	B	263	3.432	64.116	78.861	1.00	8.04	B	C
	ATOM	1230	NH1	ARG	B	263	2.115	64.045	78.989	1.00	7.54	B	N
	ATOM	1231	NH2	ARG	B	263	4.084	65.159	79.362	1.00	9.21	B	N
	ATOM	1232	C	ARG	B	263	4.625	64.436	74.110	1.00	12.58	B	C
	ATOM	1233	O	ARG	B	263	4.976	65.542	74.538	1.00	15.19	B	O
20	ATOM	1234	N	LEU	B	264	4.840	64.043	72.856	1.00	12.12	B	N
	ATOM	1235	CA	LEU	B	264	5.493	64.905	71.871	1.00	11.70	B	C
	ATOM	1236	CB	LEU	B	264	5.760	64.120	70.581	1.00	7.85	B	C
	ATOM	1237	CG	LEU	B	264	6.903	63.107	70.669	1.00	5.49	B	C
	ATOM	1238	CD1	LEU	B	264	6.800	62.110	69.533	1.00	2.21	B	C
25	ATOM	1239	CD2	LEU	B	264	8.245	63.840	70.645	1.00	2.66	B	C
	ATOM	1240	C	LEU	B	264	4.617	66.122	71.572	1.00	10.77	B	C
	ATOM	1241	O	LEU	B	264	5.113	67.229	71.376	1.00	11.98	B	O
	ATOM	1242	N	LYS	B	265	3.306	65.913	71.538	1.00	12.44	B	N
	ATOM	1243	CA	LYS	B	265	2.380	67.007	71.285	1.00	13.18	B	C
30	ATOM	1244	CB	LYS	B	265	0.953	66.483	71.130	1.00	15.12	B	C
	ATOM	1245	CG	LYS	B	265	0.524	66.234	69.695	1.00	18.96	B	C
	ATOM	1246	CD	LYS	B	265	-0.537	65.146	69.616	1.00	26.28	B	C
	ATOM	1247	CE	LYS	B	265	-1.942	65.703	69.820	1.00	28.25	B	C
	ATOM	1248	NZ	LYS	B	265	-2.781	64.818	70.684	1.00	33.02	B	N
35	ATOM	1249	C	LYS	B	265	2.449	67.942	72.474	1.00	13.45	B	C
	ATOM	1250	O	LYS	B	265	2.375	69.160	72.321	1.00	18.31	B	O
	ATOM	1251	N	PHE	B	266	2.601	67.372	73.666	1.00	14.15	B	N
	ATOM	1252	CA	PHE	B	266	2.680	68.188	74.872	1.00	13.07	B	C
	ATOM	1253	CB	PHE	B	266	2.614	67.324	76.134	1.00	12.46	B	C
40	ATOM	1254	CG	PHE	B	266	2.785	68.113	77.402	1.00	11.24	B	C
	ATOM	1255	CD1	PHE	B	266	1.701	68.768	77.976	1.00	10.85	B	C
	ATOM	1256	CD2	PHE	B	266	4.038	68.249	77.991	1.00	10.75	B	C
	ATOM	1257	CE1	PHE	B	266	1.860	69.554	79.116	1.00	10.74	B	C
	ATOM	1258	CE2	PHE	B	266	4.209	69.035	79.134	1.00	12.69	B	C
45	ATOM	1259	CZ	PHE	B	266	3.121	69.689	79.697	1.00	10.51	B	C
	ATOM	1260	C	PHE	B	266	3.968	68.996	74.881	1.00	10.10	B	C
	ATOM	1261	O	PHE	B	266	3.970	70.183	75.215	1.00	12.30	B	O
	ATOM	1262	N	LEU	B	267	5.067	68.347	74.533	1.00	8.66	B	N
	ATOM	1263	CA	LEU	B	267	6.353	69.027	74.490	1.00	9.70	B	C
50	ATOM	1264	CB	LEU	B	267	7.426	68.069	73.972	1.00	11.17	B	C
	ATOM	1265	CG	LEU	B	267	8.426	67.440	74.951	1.00	12.44	B	C
	ATOM	1266	CD1	LEU	B	267	7.956	67.586	76.371	1.00	9.33	B	C
	ATOM	1267	CD2	LEU	B	267	8.612	65.979	74.606	1.00	11.59	B	C
	ATOM	1268	C	LEU	B	267	6.251	70.239	73.570	1.00	10.66	B	C
55	ATOM	1269	O	LEU	B	267	6.797	71.305	73.862	1.00	13.00	B	O
	ATOM	1270	N	SER	B	268	5.539	70.065	72.459	1.00	11.41	B	N
	ATOM	1271	CA	SER	B	268	5.339	71.123	71.471	1.00	9.53	B	C
	ATOM	1272	CB	SER	B	268	4.619	70.552	70.248	1.00	11.21	B	C
	ATOM	1273	OG	SER	B	268	4.482	71.528	69.230	1.00	15.74	B	O
60	ATOM	1274	C	SER	B	268	4.532	72.288	72.037	1.00	8.91	B	C
	ATOM	1275	O	SER	B	268	5.001	73.425	72.051	1.00	10.49	B	O
	ATOM	1276	N	SER	B	269	3.319	72.005	72.504	1.00	7.05	B	N
	ATOM	1277	CA	SER	B	269	2.458	73.042	73.069	1.00	8.84	B	C
	ATOM	1278	CB	SER	B	269	1.113	72.445	73.493	1.00	7.64	B	C
65	ATOM	1279	OG	SER	B	269	0.348	72.046	72.375	1.00	9.83	B	O
	ATOM	1280	C	SER	B	269	3.102	73.737	74.270	1.00	9.39	B	C
	ATOM	1281	O	SER	B	269	2.967	74.946	74.438	1.00	8.83	B	O
	ATOM	1282	N	LYS	B	270	3.790	72.974	75.112	1.00	9.70	B	N

	ATOM	1283	CA	LYS	B	270	4.439	73.563	76.280	1.00	11.76	B	C
	ATOM	1284	CB	LYS	B	270	5.179	72.496	77.100	1.00	11.69	B	C
	ATOM	1285	CG	LYS	B	270	5.289	72.875	78.584	1.00	12.91	B	C
5	ATOM	1286	CD	LYS	B	270	6.377	72.112	79.311	1.00	9.89	B	C
	ATOM	1287	CE	LYS	B	270	6.718	72.786	80.648	1.00	11.42	B	C
	ATOM	1288	NZ	LYS	B	270	7.785	72.057	81.419	1.00	8.74	B	N
	ATOM	1289	C	LYS	B	270	5.414	74.673	75.898	1.00	10.45	B	C
	ATOM	1290	O	LYS	B	270	5.414	75.739	76.508	1.00	11.77	B	O
10	ATOM	1291	N	PHE	B	271	6.249	74.425	74.893	1.00	12.81	B	N
	ATOM	1292	CA	PHE	B	271	7.215	75.433	74.449	1.00	12.96	B	C
	ATOM	1293	CB	PHE	B	271	8.113	74.862	73.351	1.00	12.12	B	C
	ATOM	1294	CG	PHE	B	271	9.221	75.789	72.932	1.00	12.04	B	C
	ATOM	1295	CD1	PHE	B	271	10.388	75.890	73.688	1.00	13.48	B	C
	ATOM	1296	CD2	PHE	B	271	9.094	76.579	71.789	1.00	9.18	B	C
15	ATOM	1297	CE1	PHE	B	271	11.419	76.772	73.311	1.00	12.46	B	C
	ATOM	1298	CE2	PHE	B	271	10.115	77.458	71.408	1.00	9.90	B	C
	ATOM	1299	CZ	PHE	B	271	11.279	77.553	72.172	1.00	10.20	B	C
	ATOM	1300	C	PHE	B	271	6.510	76.683	73.927	1.00	13.37	B	C
20	ATOM	1301	O	PHE	B	271	6.950	77.807	74.170	1.00	12.01	B	O
	ATOM	1302	N	GLN	B	272	5.410	76.483	73.209	1.00	16.80	B	N
	ATOM	1303	CA	GLN	B	272	4.655	77.603	72.663	1.00	18.21	B	C
	ATOM	1304	CB	GLN	B	272	3.452	77.092	71.880	1.00	18.60	B	C
	ATOM	1305	CG	GLN	B	272	3.552	77.364	70.400	1.00	27.59	B	C
	ATOM	1306	CD	GLN	B	272	3.691	76.097	69.589	1.00	32.97	B	C
25	ATOM	1307	OE1	GLN	B	272	2.693	75.488	69.187	1.00	33.28	B	O
	ATOM	1308	NE2	GLN	B	272	4.934	75.688	69.339	1.00	34.78	B	N
	ATOM	1309	C	GLN	B	272	4.190	78.541	73.769	1.00	16.03	B	C
	ATOM	1310	O	GLN	B	272	4.261	79.766	73.634	1.00	16.19	B	O
30	ATOM	1311	N	VAL	B	273	3.712	77.967	74.865	1.00	13.58	B	N
	ATOM	1312	CA	VAL	B	273	3.252	78.768	75.986	1.00	10.92	B	C
	ATOM	1313	CB	VAL	B	273	2.438	77.917	76.985	1.00	11.84	B	C
	ATOM	1314	CG1	VAL	B	273	2.051	78.751	78.186	1.00	12.83	B	C
	ATOM	1315	CG2	VAL	B	273	1.187	77.378	76.308	1.00	11.13	B	C
	ATOM	1316	C	VAL	B	273	4.448	79.386	76.702	1.00	11.29	B	C
35	ATOM	1317	O	VAL	B	273	4.398	80.540	77.131	1.00	12.66	B	O
	ATOM	1318	N	HIS	B	274	5.528	78.626	76.831	1.00	11.81	B	N
	ATOM	1319	CA	HIS	B	274	6.722	79.137	77.497	1.00	12.18	B	C
	ATOM	1320	CB	HIS	B	274	7.814	78.067	77.542	1.00	9.06	B	C
	ATOM	1321	CG	HIS	B	274	9.173	78.603	77.879	1.00	10.25	B	C
40	ATOM	1322	CD2	HIS	B	274	10.318	78.649	77.157	1.00	12.41	B	C
	ATOM	1323	ND1	HIS	B	274	9.470	79.166	79.100	1.00	14.56	B	N
	ATOM	1324	CE1	HIS	B	274	10.740	79.535	79.120	1.00	13.05	B	C
	ATOM	1325	NE2	HIS	B	274	11.278	79.233	77.952	1.00	13.00	B	N
	ATOM	1326	C	HIS	B	274	7.242	80.364	76.759	1.00	16.43	B	C
45	ATOM	1327	O	HIS	B	274	7.494	81.410	77.365	1.00	17.30	B	O
	ATOM	1328	N	GLN	B	275	7.389	80.239	75.445	1.00	17.94	B	N
	ATOM	1329	CA	GLN	B	275	7.893	81.341	74.636	1.00	22.05	B	C
	ATOM	1330	CB	GLN	B	275	8.128	80.892	73.194	1.00	25.01	B	C
	ATOM	1331	CG	GLN	B	275	9.544	81.165	72.709	1.00	37.20	B	C
50	ATOM	1332	CD	GLN	B	275	9.679	81.030	71.196	1.00	44.86	B	C
	ATOM	1333	OE1	GLN	B	275	8.683	81.107	70.456	1.00	47.03	B	O
	ATOM	1334	NE2	GLN	B	275	10.916	80.826	70.725	1.00	44.05	B	N
	ATOM	1335	C	GLN	B	275	6.986	82.554	74.640	1.00	20.52	B	C
	ATOM	1336	O	GLN	B	275	7.463	83.687	74.691	1.00	22.04	B	O
55	ATOM	1337	N	MET	B	276	5.680	82.335	74.587	1.00	17.61	B	N
	ATOM	1338	CA	MET	B	276	4.776	83.464	74.575	1.00	19.13	B	C
	ATOM	1339	CB	MET	B	276	3.380	83.012	74.139	1.00	20.26	B	C
	ATOM	1340	CG	MET	B	276	2.507	82.457	75.231	1.00	23.09	B	C
	ATOM	1341	SD	MET	B	276	0.876	82.020	74.554	1.00	27.74	B	S
60	ATOM	1342	CE	MET	B	276	1.283	80.629	73.501	1.00	19.77	B	C
	ATOM	1343	C	MET	B	276	4.731	84.148	75.934	1.00	18.74	B	C
	ATOM	1344	O	MET	B	276	4.466	85.345	76.026	1.00	19.22	B	O
	ATOM	1345	N	LEU	B	277	5.012	83.393	76.988	1.00	16.62	B	N
	ATOM	1346	CA	LEU	B	277	4.991	83.955	78.330	1.00	15.22	B	C
65	ATOM	1347	CB	LEU	B	277	4.558	82.882	79.329	1.00	12.66	B	C
	ATOM	1348	CG	LEU	B	277	3.173	82.878	79.972	1.00	11.42	B	C
	ATOM	1349	CD1	LEU	B	277	2.127	83.521	79.072	1.00	14.42	B	C
	ATOM	1350	CD2	LEU	B	277	2.808	81.445	80.264	1.00	14.79	B	C

	ATOM	1351	C	LEU	B	277	6.339	84.522	78.776	1.00	13.38	B	C
	ATOM	1352	O	LEU	B	277	6.381	85.521	79.499	1.00	12.12	B	O
	ATOM	1353	N	ASN	B	278	7.434	83.907	78.323	1.00	12.63	B	N
5	ATOM	1354	CA	ASN	B	278	8.769	84.312	78.765	1.00	13.78	B	C
	ATOM	1355	CB	ASN	B	278	9.334	83.183	79.640	1.00	14.55	B	C
	ATOM	1356	CG	ASN	B	278	8.416	82.842	80.812	1.00	14.74	B	C
	ATOM	1357	OD1	ASN	B	278	7.962	81.703	80.959	1.00	10.84	B	O
	ATOM	1358	ND2	ASN	B	278	8.130	83.843	81.646	1.00	15.29	B	N
10	ATOM	1359	C	ASN	B	278	9.853	84.761	77.777	1.00	14.62	B	C
	ATOM	1360	O	ASN	B	278	10.977	85.073	78.191	1.00	13.91	B	O
	ATOM	1361	N	GLU	B	279	9.542	84.815	76.487	1.00	16.67	B	N
	ATOM	1362	CA	GLU	B	279	10.541	85.224	75.494	1.00	15.37	B	C
	ATOM	1363	CB	GLU	B	279	9.927	85.233	74.096	1.00	15.33	B	C
15	ATOM	1364	CG	GLU	B	279	8.719	86.132	73.959	1.00	18.49	B	C
	ATOM	1365	CD	GLU	B	279	8.209	86.196	72.545	1.00	21.18	B	C
	ATOM	1366	OE1	GLU	B	279	9.010	85.947	71.624	1.00	28.17	B	O
	ATOM	1367	OE2	GLU	B	279	7.012	86.493	72.347	1.00	24.76	B	O
	ATOM	1368	C	GLU	B	279	11.169	86.585	75.780	1.00	13.95	B	C
20	ATOM	1369	O	GLU	B	279	12.357	86.774	75.557	1.00	15.65	B	O
	ATOM	1370	N	MET	B	280	10.380	87.535	76.271	1.00	18.72	B	N
	ATOM	1371	CA	MET	B	280	10.907	88.867	76.574	1.00	20.84	B	C
	ATOM	1372	CB	MET	B	280	9.775	89.824	76.975	1.00	27.85	B	C
	ATOM	1373	CG	MET	B	280	9.026	90.485	75.810	1.00	36.37	B	C
	ATOM	1374	SD	MET	B	280	9.975	90.576	74.254	1.00	50.73	B	S
25	ATOM	1375	CE	MET	B	280	10.379	92.343	74.217	1.00	47.44	B	C
	ATOM	1376	C	MET	B	280	11.902	88.753	77.716	1.00	18.42	B	C
	ATOM	1377	O	MET	B	280	12.900	89.463	77.766	1.00	19.42	B	O
	ATOM	1378	N	ASP	B	281	11.615	87.836	78.630	1.00	20.23	B	N
30	ATOM	1379	CA	ASP	B	281	12.466	87.597	79.786	1.00	19.83	B	C
	ATOM	1380	CB	ASP	B	281	11.708	86.735	80.794	1.00	21.95	B	C
	ATOM	1381	CG	ASP	B	281	10.565	87.490	81.431	1.00	23.88	B	C
	ATOM	1382	OD1	ASP	B	281	9.398	87.049	81.316	1.00	26.68	B	O
	ATOM	1383	OD2	ASP	B	281	10.848	88.544	82.036	1.00	26.34	B	O
35	ATOM	1384	C	ASP	B	281	13.785	86.947	79.392	1.00	17.73	B	C
	ATOM	1385	O	ASP	B	281	14.830	87.262	79.961	1.00	18.84	B	O
	ATOM	1386	N	GLU	B	282	13.740	86.040	78.422	1.00	15.69	B	N
	ATOM	1387	CA	GLU	B	282	14.961	85.395	77.952	1.00	14.81	B	C
	ATOM	1388	CB	GLU	B	282	14.612	84.242	77.012	1.00	13.80	B	C
	ATOM	1389	CG	GLU	B	282	14.010	83.054	77.735	1.00	12.72	B	C
40	ATOM	1390	CD	GLU	B	282	13.633	81.933	76.800	1.00	14.94	B	C
	ATOM	1391	OE1	GLU	B	282	13.219	82.237	75.666	1.00	16.87	B	O
	ATOM	1392	OE2	GLU	B	282	13.749	80.748	77.191	1.00	16.57	B	O
	ATOM	1393	C	GLU	B	282	15.827	86.440	77.238	1.00	13.19	B	C
45	ATOM	1394	O	GLU	B	282	17.042	86.469	77.411	1.00	12.81	B	O
	ATOM	1395	N	LEU	B	283	15.195	87.311	76.456	1.00	11.76	B	N
	ATOM	1396	CA	LEU	B	283	15.912	88.369	75.739	1.00	13.09	B	C
	ATOM	1397	CB	LEU	B	283	14.926	89.224	74.929	1.00	11.08	B	C
	ATOM	1398	CG	LEU	B	283	15.296	89.723	73.527	1.00	11.72	B	C
50	ATOM	1399	CD1	LEU	B	283	14.610	91.052	73.272	1.00	6.82	B	C
	ATOM	1400	CD2	LEU	B	283	16.799	89.849	73.380	1.00	8.80	B	C
	ATOM	1401	C	LEU	B	283	16.669	89.265	76.720	1.00	14.52	B	C
	ATOM	1402	O	LEU	B	283	17.840	89.606	76.507	1.00	16.23	B	O
	ATOM	1403	N	LYS	B	284	15.981	89.653	77.789	1.00	16.50	B	N
55	ATOM	1404	CA	LYS	B	284	16.555	90.503	78.828	1.00	16.73	B	C
	ATOM	1405	CB	LYS	B	284	15.557	90.632	79.984	1.00	20.58	B	C
	ATOM	1406	CG	LYS	B	284	15.915	91.666	81.034	1.00	24.51	B	C
	ATOM	1407	CD	LYS	B	284	14.916	91.653	82.183	1.00	27.88	B	C
	ATOM	1408	CE	LYS	B	284	15.278	92.684	83.251	1.00	32.23	B	C
60	ATOM	1409	NZ	LYS	B	284	14.085	93.106	84.052	1.00	38.40	B	N
	ATOM	1410	C	LYS	B	284	17.884	89.931	79.337	1.00	15.36	B	C
	ATOM	1411	O	LYS	B	284	18.862	90.660	79.511	1.00	14.50	B	O
	ATOM	1412	N	GLU	B	285	17.925	88.624	79.572	1.00	14.06	B	N
	ATOM	1413	CA	GLU	B	285	19.151	87.991	80.043	1.00	13.41	B	C
65	ATOM	1414	CB	GLU	B	285	18.960	86.481	80.180	1.00	13.12	B	C
	ATOM	1415	CG	GLU	B	285	18.083	86.016	81.330	1.00	9.99	B	C
	ATOM	1416	CD	GLU	B	285	18.369	84.572	81.702	1.00	13.86	B	C
	ATOM	1417	OE1	GLU	B	285	19.498	84.290	82.170	1.00	16.19	B	O
	ATOM	1418	OE2	GLU	B	285	17.478	83.716	81.520	1.00	13.88	B	O

	ATOM	1419	C	GLU	B	285	20.292	88.250	79.055	1.00	17.45	B	C
	ATOM	1420	O	GLU	B	285	21.401	88.641	79.454	1.00	17.06	B	O
	ATOM	1421	N	LEU	B	286	20.017	88.034	77.765	1.00	18.37	B	N
5	ATOM	1422	CA	LEU	B	286	21.025	88.219	76.715	1.00	18.19	B	C
	ATOM	1423	CB	LEU	B	286	20.496	87.724	75.361	1.00	17.32	B	C
	ATOM	1424	CG	LEU	B	286	19.926	86.308	75.177	1.00	16.02	B	C
	ATOM	1425	CD1	LEU	B	286	20.389	85.775	73.841	1.00	15.88	B	C
	ATOM	1426	CD2	LEU	B	286	20.356	85.380	76.283	1.00	12.75	B	C
10	ATOM	1427	C	LEU	B	286	21.464	89.670	76.580	1.00	18.07	B	C
	ATOM	1428	O	LEU	B	286	22.643	89.950	76.370	1.00	18.90	B	O
	ATOM	1429	N	LYS	B	287	20.511	90.590	76.683	1.00	19.92	B	N
	ATOM	1430	CA	LYS	B	287	20.822	92.007	76.586	1.00	19.78	B	C
	ATOM	1431	CB	LYS	B	287	19.537	92.829	76.602	1.00	18.42	B	C
	ATOM	1432	CG	LYS	B	287	18.909	93.029	75.241	1.00	20.20	B	C
15	ATOM	1433	CD	LYS	B	287	17.401	93.155	75.373	1.00	23.52	B	C
	ATOM	1434	CE	LYS	B	287	16.912	94.529	74.950	1.00	25.49	B	C
	ATOM	1435	NZ	LYS	B	287	15.436	94.532	74.734	1.00	27.98	B	N
	ATOM	1436	C	LYS	B	287	21.722	92.451	77.742	1.00	20.85	B	C
20	ATOM	1437	O	LYS	B	287	22.584	93.311	77.571	1.00	20.97	B	O
	ATOM	1438	N	ASN	B	288	21.518	91.867	78.918	1.00	22.89	B	N
	ATOM	1439	CA	ASN	B	288	22.323	92.219	80.086	1.00	25.69	B	C
	ATOM	1440	CB	ASN	B	288	21.510	92.046	81.371	1.00	25.09	B	C
	ATOM	1441	CG	ASN	B	288	20.378	93.048	81.480	1.00	25.66	B	C
25	ATOM	1442	OD1	ASN	B	288	20.522	94.216	81.112	1.00	21.24	B	O
	ATOM	1443	ND2	ASN	B	288	19.242	92.593	81.986	1.00	26.07	B	N
	ATOM	1444	C	ASN	B	288	23.605	91.399	80.182	1.00	25.94	B	C
	ATOM	1445	O	ASN	B	288	24.265	91.381	81.222	1.00	24.91	B	O
	ATOM	1446	N	ASN	B	289	23.943	90.715	79.093	1.00	25.44	B	N
30	ATOM	1447	CA	ASN	B	289	25.159	89.915	79.028	1.00	25.69	B	C
	ATOM	1448	CB	ASN	B	289	24.832	88.521	78.483	1.00	22.21	B	C
	ATOM	1449	CG	ASN	B	289	26.020	87.584	78.510	1.00	17.90	B	C
	ATOM	1450	OD1	ASN	B	289	26.888	87.680	79.374	1.00	20.98	B	O
	ATOM	1451	ND2	ASN	B	289	26.063	86.669	77.558	1.00	13.85	B	N
35	ATOM	1452	C	ASN	B	289	26.071	90.681	78.074	1.00	27.90	B	C
	ATOM	1453	O	ASN	B	289	26.026	90.473	76.863	1.00	32.22	B	O
	ATOM	1454	N	PRO	B	290	26.900	91.597	78.613	1.00	28.45	B	N
	ATOM	1455	CD	PRO	B	290	27.007	91.899	80.050	1.00	25.62	B	C
	ATOM	1456	CA	PRO	B	290	27.826	92.416	77.821	1.00	28.42	B	C
40	ATOM	1457	CB	PRO	B	290	28.258	93.503	78.797	1.00	25.40	B	C
	ATOM	1458	CG	PRO	B	290	28.170	92.847	80.115	1.00	26.22	B	C
	ATOM	1459	C	PRO	B	290	29.016	91.668	77.241	1.00	29.55	B	C
	ATOM	1460	O	PRO	B	290	29.760	92.199	76.416	1.00	29.25	B	O
	ATOM	1461	N	HIS	B	291	29.194	90.429	77.667	1.00	31.53	B	N
45	ATOM	1462	CA	HIS	B	291	30.312	89.637	77.177	1.00	37.96	B	C
	ATOM	1463	CB	HIS	B	291	30.626	88.507	78.165	1.00	42.13	B	C
	ATOM	1464	CG	HIS	B	291	30.812	88.973	79.576	1.00	48.96	B	C
	ATOM	1465	CD2	HIS	B	291	31.934	89.237	80.288	1.00	48.72	B	C
	ATOM	1466	ND1	HIS	B	291	29.752	89.227	80.422	1.00	51.30	B	N
50	ATOM	1467	CE1	HIS	B	291	30.215	89.626	81.595	1.00	51.69	B	C
	ATOM	1468	NE2	HIS	B	291	31.536	89.640	81.539	1.00	51.08	B	N
	ATOM	1469	C	HIS	B	291	30.067	89.029	75.798	1.00	37.68	B	C
	ATOM	1470	O	HIS	B	291	31.013	88.766	75.057	1.00	38.20	B	O
	ATOM	1471	N	ARG	B	292	28.804	88.832	75.436	1.00	32.50	B	N
55	ATOM	1472	CA	ARG	B	292	28.525	88.184	74.174	1.00	26.06	B	C
	ATOM	1473	CB	ARG	B	292	28.582	86.673	74.399	1.00	23.93	B	C
	ATOM	1474	CG	ARG	B	292	29.757	85.996	73.762	1.00	24.17	B	C
	ATOM	1475	CD	ARG	B	292	30.198	84.826	74.571	1.00	24.14	B	C
	ATOM	1476	NE	ARG	B	292	31.458	85.100	75.253	1.00	27.92	B	N
60	ATOM	1477	CZ	ARG	B	292	32.647	85.130	74.656	1.00	25.53	B	C
	ATOM	1478	NH1	ARG	B	292	32.762	84.905	73.353	1.00	28.27	B	N
	ATOM	1479	NH2	ARG	B	292	33.731	85.375	75.370	1.00	26.05	B	N
	ATOM	1480	C	ARG	B	292	27.222	88.502	73.465	1.00	25.76	B	C
	ATOM	1481	O	ARG	B	292	26.274	89.056	74.045	1.00	26.44	B	O
65	ATOM	1482	N	ASP	B	293	27.213	88.133	72.183	1.00	23.24	B	N
	ATOM	1483	CA	ASP	B	293	26.054	88.232	71.296	1.00	21.84	B	C
	ATOM	1484	CB	ASP	B	293	25.969	89.588	70.564	1.00	19.78	B	C
	ATOM	1485	CG	ASP	B	293	27.143	89.863	69.661	1.00	21.34	B	C
	ATOM	1486	OD1	ASP	B	293	27.477	91.057	69.503	1.00	20.30	B	O

	ATOM	1487	OD2	ASP	B	293	27.725	88.907	69.105	1.00	23.13	B	O
	ATOM	1488	C	ASP	B	293	26.237	87.060	70.332	1.00	19.56	B	C
	ATOM	1489	O	ASP	B	293	27.258	86.380	70.385	1.00	16.85	B	O
5	ATOM	1490	N	PHE	B	294	25.259	86.793	69.476	1.00	20.48	B	N
	ATOM	1491	CA	PHE	B	294	25.380	85.660	68.566	1.00	20.06	B	C
	ATOM	1492	CB	PHE	B	294	24.208	85.626	67.584	1.00	21.07	B	C
	ATOM	1493	CG	PHE	B	294	24.296	84.503	66.574	1.00	21.85	B	C
	ATOM	1494	CD1	PHE	B	294	23.974	83.197	66.935	1.00	19.34	B	C
10	ATOM	1495	CD2	PHE	B	294	24.725	84.747	65.272	1.00	20.37	B	C
	ATOM	1496	CE1	PHE	B	294	24.080	82.150	66.017	1.00	17.36	B	C
	ATOM	1497	CE2	PHE	B	294	24.834	83.704	64.350	1.00	19.46	B	C
	ATOM	1498	CZ	PHE	B	294	24.511	82.406	64.727	1.00	16.66	B	C
	ATOM	1499	C	PHE	B	294	26.679	85.625	67.769	1.00	19.42	B	C
15	ATOM	1500	O	PHE	B	294	27.235	84.557	67.527	1.00	19.19	B	O
	ATOM	1501	N	TYR	B	295	27.168	86.792	67.374	1.00	19.10	B	N
	ATOM	1502	CA	TYR	B	295	28.372	86.864	66.566	1.00	16.76	B	C
	ATOM	1503	CB	TYR	B	295	28.472	88.252	65.950	1.00	16.34	B	C
	ATOM	1504	CG	TYR	B	295	27.302	88.505	65.033	1.00	18.58	B	C
20	ATOM	1505	CD1	TYR	B	295	27.270	87.961	63.753	1.00	17.07	B	C
	ATOM	1506	CE1	TYR	B	295	26.165	88.137	62.925	1.00	21.48	B	C
	ATOM	1507	CD2	TYR	B	295	26.195	89.235	65.468	1.00	20.52	B	C
	ATOM	1508	CE2	TYR	B	295	25.079	89.416	64.644	1.00	21.68	B	C
	ATOM	1509	CZ	TYR	B	295	25.075	88.864	63.373	1.00	23.17	B	C
25	ATOM	1510	OH	TYR	B	295	23.995	89.053	62.540	1.00	25.68	B	O
	ATOM	1511	C	TYR	B	295	29.691	86.449	67.183	1.00	17.32	B	C
	ATOM	1512	O	TYR	B	295	30.636	86.170	66.455	1.00	22.03	B	O
	ATOM	1513	N	ASN	B	296	29.797	86.411	68.503	1.00	16.63	B	N
	ATOM	1514	CA	ASN	B	296	31.058	85.958	69.064	1.00	16.22	B	C
30	ATOM	1515	CB	ASN	B	296	31.848	87.102	69.734	1.00	18.02	B	C
	ATOM	1516	CG	ASN	B	296	31.189	87.660	70.969	1.00	16.76	B	C
	ATOM	1517	OD1	ASN	B	296	31.814	88.422	71.699	1.00	17.69	B	O
	ATOM	1518	ND2	ASN	B	296	29.932	87.302	71.209	1.00	18.65	B	N
	ATOM	1519	C	ASN	B	296	30.898	84.753	69.968	1.00	15.83	B	C
35	ATOM	1520	O	ASN	B	296	31.633	84.563	70.932	1.00	16.82	B	O
	ATOM	1521	N	CYS	B	297	29.911	83.936	69.608	1.00	19.31	B	N
	ATOM	1522	CA	CYS	B	297	29.605	82.661	70.262	1.00	19.52	B	C
	ATOM	1523	CB	CYS	B	297	28.098	82.385	70.264	1.00	21.11	B	C
	ATOM	1524	SG	CYS	B	297	27.176	83.132	71.604	1.00	29.34	B	S
40	ATOM	1525	C	CYS	B	297	30.244	81.685	69.281	1.00	17.71	B	C
	ATOM	1526	O	CYS	B	297	30.289	81.966	68.082	1.00	18.19	B	O
	ATOM	1527	N	ARG	B	298	30.735	80.554	69.756	1.00	16.20	B	N
	ATOM	1528	CA	ARG	B	298	31.332	79.600	68.840	1.00	16.19	B	C
	ATOM	1529	CB	ARG	B	298	32.280	78.673	69.585	1.00	16.69	B	C
45	ATOM	1530	CG	ARG	B	298	33.717	79.147	69.573	1.00	17.33	B	C
	ATOM	1531	CD	ARG	B	298	33.884	80.393	70.412	1.00	16.39	B	C
	ATOM	1532	NE	ARG	B	298	35.276	80.833	70.430	1.00	21.70	B	N
	ATOM	1533	CZ	ARG	B	298	35.763	81.719	71.292	1.00	23.02	B	C
	ATOM	1534	NH1	ARG	B	298	34.968	82.259	72.206	1.00	24.09	B	N
50	ATOM	1535	NH2	ARG	B	298	37.042	82.070	71.240	1.00	25.73	B	N
	ATOM	1536	C	ARG	B	298	30.239	78.786	68.162	1.00	18.26	B	C
	ATOM	1537	O	ARG	B	298	29.267	78.379	68.803	1.00	17.59	B	O
	ATOM	1538	N	LYS	B	299	30.390	78.575	66.857	1.00	20.80	B	N
	ATOM	1539	CA	LYS	B	299	29.431	77.792	66.072	1.00	19.65	B	C
55	ATOM	1540	CB	LYS	B	299	28.760	78.669	65.019	1.00	16.21	B	C
	ATOM	1541	CG	LYS	B	299	27.384	79.181	65.415	1.00	20.18	B	C
	ATOM	1542	CD	LYS	B	299	27.431	80.607	65.960	1.00	18.23	B	C
	ATOM	1543	CE	LYS	B	299	28.442	81.459	65.216	1.00	16.87	B	C
	ATOM	1544	NZ	LYS	B	299	28.685	82.758	65.894	1.00	16.78	B	N
60	ATOM	1545	C	LYS	B	299	30.220	76.690	65.382	1.00	18.55	B	C
	ATOM	1546	O	LYS	B	299	31.279	76.957	64.817	1.00	21.82	B	O
	ATOM	1547	N	VAL	B	300	29.727	75.457	65.428	1.00	15.88	B	N
	ATOM	1548	CA	VAL	B	300	30.440	74.356	64.795	1.00	14.92	B	C
	ATOM	1549	CB	VAL	B	300	30.856	73.304	65.840	1.00	13.49	B	C
65	ATOM	1550	CG1	VAL	B	300	31.703	72.232	65.194	1.00	7.75	B	C
	ATOM	1551	CG2	VAL	B	300	31.629	73.975	66.963	1.00	11.21	B	C
	ATOM	1552	C	VAL	B	300	29.636	73.664	63.690	1.00	17.05	B	C
	ATOM	1553	O	VAL	B	300	28.453	73.345	63.874	1.00	17.74	B	O
	ATOM	1554	N	ASP	B	301	30.277	73.460	62.537	1.00	13.69	B	N

	ATOM	1555	CA	ASP	B	301	29.641	72.784	61.409	1.00	12.39	B	C
	ATOM	1556	CB	ASP	B	301	30.324	73.153	60.088	1.00	12.61	B	C
	ATOM	1557	CG	ASP	B	301	29.450	72.871	58.880	1.00	13.19	B	C
5	ATOM	1558	OD1	ASP	B	301	29.746	73.410	57.797	1.00	14.87	B	O
	ATOM	1559	OD2	ASP	B	301	28.466	72.109	59.008	1.00	11.93	B	O
	ATOM	1560	C	ASP	B	301	29.846	71.315	61.706	1.00	12.40	B	C
	ATOM	1561	O	ASP	B	301	30.869	70.723	61.364	1.00	10.40	B	O
	ATOM	1562	N	THR	B	302	28.854	70.729	62.353	1.00	14.86	B	N
10	ATOM	1563	CA	THR	B	302	28.929	69.341	62.771	1.00	14.86	B	C
	ATOM	1564	CB	THR	B	302	27.905	69.109	63.884	1.00	12.96	B	C
	ATOM	1565	OG1	THR	B	302	26.698	69.818	63.565	1.00	12.90	B	O
	ATOM	1566	CG2	THR	B	302	28.450	69.633	65.214	1.00	8.04	B	C
	ATOM	1567	C	THR	B	302	28.747	68.288	61.684	1.00	18.07	B	C
15	ATOM	1568	O	THR	B	302	28.908	67.094	61.939	1.00	19.87	B	O
	ATOM	1569	N	HIS	B	303	28.437	68.716	60.468	1.00	19.07	B	N
	ATOM	1570	CA	HIS	B	303	28.203	67.762	59.393	1.00	17.69	B	C
	ATOM	1571	CB	HIS	B	303	26.727	67.372	59.384	1.00	18.85	B	C
	ATOM	1572	CG	HIS	B	303	26.270	66.717	58.119	1.00	19.10	B	C
20	ATOM	1573	CD2	HIS	B	303	26.859	65.781	57.339	1.00	18.80	B	C
	ATOM	1574	ND1	HIS	B	303	25.045	66.979	57.549	1.00	17.44	B	N
	ATOM	1575	CE1	HIS	B	303	24.893	66.233	56.473	1.00	18.05	B	C
	ATOM	1576	NE2	HIS	B	303	25.982	65.495	56.322	1.00	19.64	B	N
	ATOM	1577	C	HIS	B	303	28.601	68.374	58.066	1.00	18.18	B	C
25	ATOM	1578	O	HIS	B	303	27.806	69.068	57.433	1.00	15.27	B	O
	ATOM	1579	N	ILE	B	304	29.838	68.100	57.658	1.00	16.44	B	N
	ATOM	1580	CA	ILE	B	304	30.384	68.633	56.422	1.00	15.89	B	C
	ATOM	1581	CB	ILE	B	304	31.055	69.991	56.695	1.00	13.57	B	C
	ATOM	1582	CG2	ILE	B	304	31.971	69.871	57.886	1.00	13.63	B	C
30	ATOM	1583	CG1	ILE	B	304	31.827	70.471	55.473	1.00	13.59	B	C
	ATOM	1584	CD1	ILE	B	304	31.917	71.988	55.373	1.00	13.87	B	C
	ATOM	1585	C	ILE	B	304	31.395	67.673	55.808	1.00	14.88	B	C
	ATOM	1586	O	ILE	B	304	32.244	67.125	56.507	1.00	16.39	B	O
	ATOM	1587	N	HIS	B	305	31.298	67.477	54.495	1.00	15.67	B	N
35	ATOM	1588	CA	HIS	B	305	32.203	66.583	53.769	1.00	13.50	B	C
	ATOM	1589	CB	HIS	B	305	31.427	65.833	52.690	1.00	7.84	B	C
	ATOM	1590	CG	HIS	B	305	30.225	65.111	53.209	1.00	7.18	B	C
	ATOM	1591	CD2	HIS	B	305	28.970	65.547	53.483	1.00	9.25	B	C
	ATOM	1592	ND1	HIS	B	305	30.233	63.764	53.500	1.00	8.53	B	N
40	ATOM	1593	CE1	HIS	B	305	29.035	63.398	53.925	1.00	8.43	B	C
	ATOM	1594	NE2	HIS	B	305	28.252	64.462	53.925	1.00	7.29	B	N
	ATOM	1595	C	HIS	B	305	33.360	67.370	53.150	1.00	13.31	B	C
	ATOM	1596	O	HIS	B	305	33.148	68.343	52.435	1.00	12.71	B	O
	ATOM	1597	N	ALA	B	306	34.582	66.933	53.438	1.00	14.02	B	N
45	ATOM	1598	CA	ALA	B	306	35.791	67.591	52.954	1.00	14.78	B	C
	ATOM	1599	CB	ALA	B	306	37.009	66.743	53.293	1.00	13.18	B	C
	ATOM	1600	C	ALA	B	306	35.785	67.922	51.464	1.00	16.87	B	C
	ATOM	1601	O	ALA	B	306	36.169	69.024	51.068	1.00	18.30	B	O
	ATOM	1602	N	ALA	B	307	35.347	66.973	50.643	1.00	16.37	B	N
50	ATOM	1603	CA	ALA	B	307	35.312	67.161	49.196	1.00	13.93	B	C
	ATOM	1604	CB	ALA	B	307	34.840	65.890	48.524	1.00	8.59	B	C
	ATOM	1605	C	ALA	B	307	34.439	68.327	48.754	1.00	16.21	B	C
	ATOM	1606	O	ALA	B	307	34.507	68.743	47.601	1.00	18.09	B	O
	ATOM	1607	N	ALA	B	308	33.626	68.861	49.660	1.00	17.07	B	N
55	ATOM	1608	CA	ALA	B	308	32.743	69.969	49.315	1.00	13.74	B	C
	ATOM	1609	CB	ALA	B	308	31.331	69.467	49.182	1.00	11.48	B	C
	ATOM	1610	C	ALA	B	308	32.790	71.101	50.325	1.00	15.63	B	C
	ATOM	1611	O	ALA	B	308	31.901	71.952	50.349	1.00	16.73	B	O
	ATOM	1612	N	CYS	B	309	33.840	71.135	51.139	1.00	17.84	B	N
60	ATOM	1613	CA	CYS	B	309	33.961	72.167	52.165	1.00	20.42	B	C
	ATOM	1614	CB	CYS	B	309	34.967	71.732	53.242	1.00	21.66	B	C
	ATOM	1615	SG	CYS	B	309	36.695	71.627	52.718	1.00	26.17	B	S
	ATOM	1616	C	CYS	B	309	34.318	73.558	51.665	1.00	18.92	B	C
	ATOM	1617	O	CYS	B	309	34.314	74.518	52.435	1.00	19.80	B	O
65	ATOM	1618	N	MET	B	310	34.621	73.682	50.379	1.00	21.88	B	N
	ATOM	1619	CA	MET	B	310	34.974	74.990	49.817	1.00	20.12	B	C
	ATOM	1620	CB	MET	B	310	36.241	74.868	48.957	1.00	16.92	B	C
	ATOM	1621	CG	MET	B	310	36.023	74.282	47.575	1.00	9.48	B	C
	ATOM	1622	SD	MET	B	310	35.491	72.582	47.620	1.00	13.39	B	S

	ATOM	1623	CE	MET	B	310	36.954	71.745	48.181	1.00	7.12	B	C
	ATOM	1624	C	MET	B	310	33.825	75.579	48.991	1.00	20.54	B	C
	ATOM	1625	O	MET	B	310	32.961	74.847	48.502	1.00	18.14	B	O
5	ATOM	1626	N	ASN	B	311	33.798	76.903	48.856	1.00	23.04	B	N
	ATOM	1627	CA	ASN	B	311	32.750	77.533	48.060	1.00	24.28	B	C
	ATOM	1628	CB	ASN	B	311	32.668	79.047	48.304	1.00	28.15	B	C
	ATOM	1629	CG	ASN	B	311	31.476	79.687	47.576	1.00	38.23	B	C
	ATOM	1630	OD1	ASN	B	311	30.325	79.225	47.704	1.00	44.08	B	O
10	ATOM	1631	ND2	ASN	B	311	31.742	80.742	46.805	1.00	37.35	B	N
	ATOM	1632	C	ASN	B	311	33.073	77.283	46.599	1.00	21.63	B	C
	ATOM	1633	O	ASN	B	311	34.233	77.121	46.232	1.00	18.58	B	O
	ATOM	1634	N	GLN	B	312	32.045	77.249	45.763	1.00	22.71	B	N
	ATOM	1635	CA	GLN	B	312	32.260	77.012	44.350	1.00	21.89	B	C
15	ATOM	1636	CB	GLN	B	312	30.925	76.905	43.631	1.00	18.45	B	C
	ATOM	1637	CG	GLN	B	312	30.118	78.169	43.633	1.00	20.26	B	C
	ATOM	1638	CD	GLN	B	312	28.860	78.026	42.808	1.00	18.15	B	C
	ATOM	1639	OE1	GLN	B	312	28.775	77.154	41.940	1.00	20.94	B	O
	ATOM	1640	NE2	GLN	B	312	27.870	78.879	43.074	1.00	17.81	B	N
20	ATOM	1641	C	GLN	B	312	33.120	78.112	43.728	1.00	22.65	B	C
	ATOM	1642	O	GLN	B	312	33.876	77.855	42.792	1.00	24.64	B	O
	ATOM	1643	N	LYS	B	313	33.019	79.330	44.251	1.00	21.48	B	N
	ATOM	1644	CA	LYS	B	313	33.814	80.438	43.732	1.00	19.93	B	C
	ATOM	1645	CB	LYS	B	313	33.233	81.771	44.200	1.00	23.32	B	C
25	ATOM	1646	CG	LYS	B	313	32.540	82.547	43.090	1.00	25.81	B	C
	ATOM	1647	CD	LYS	B	313	32.307	83.985	43.488	1.00	30.35	B	C
	ATOM	1648	CE	LYS	B	313	31.268	84.073	44.600	1.00	36.34	B	C
	ATOM	1649	NZ	LYS	B	313	31.851	84.636	45.860	1.00	42.27	B	N
	ATOM	1650	C	LYS	B	313	35.264	80.316	44.184	1.00	18.88	B	C
30	ATOM	1651	O	LYS	B	313	36.179	80.868	43.566	1.00	18.16	B	O
	ATOM	1652	N	HIS	B	314	35.462	79.583	45.274	1.00	19.81	B	N
	ATOM	1653	CA	HIS	B	314	36.789	79.354	45.826	1.00	18.26	B	C
	ATOM	1654	CB	HIS	B	314	36.662	78.874	47.277	1.00	19.81	B	C
	ATOM	1655	CG	HIS	B	314	37.969	78.586	47.947	1.00	21.61	B	C
35	ATOM	1656	CD2	HIS	B	314	38.250	78.137	49.193	1.00	23.97	B	C
	ATOM	1657	ND1	HIS	B	314	39.186	78.739	47.314	1.00	24.52	B	N
	ATOM	1658	CE1	HIS	B	314	40.157	78.394	48.140	1.00	24.14	B	C
	ATOM	1659	NE2	HIS	B	314	39.617	78.026	49.288	1.00	26.91	B	N
	ATOM	1660	C	HIS	B	314	37.462	78.289	44.957	1.00	17.08	B	C
40	ATOM	1661	O	HIS	B	314	38.642	78.394	44.628	1.00	17.02	B	O
	ATOM	1662	N	LEU	B	315	36.707	77.264	44.581	1.00	15.41	B	N
	ATOM	1663	CA	LEU	B	315	37.245	76.214	43.740	1.00	16.44	B	C
	ATOM	1664	CB	LEU	B	315	36.226	75.085	43.573	1.00	17.59	B	C
	ATOM	1665	CG	LEU	B	315	36.614	74.004	42.553	1.00	18.80	B	C
45	ATOM	1666	CD1	LEU	B	315	37.902	73.306	43.013	1.00	16.38	B	C
	ATOM	1667	CD2	LEU	B	315	35.477	73.003	42.399	1.00	12.69	B	C
	ATOM	1668	C	LEU	B	315	37.604	76.794	42.371	1.00	18.31	B	C
	ATOM	1669	O	LEU	B	315	38.685	76.538	41.842	1.00	20.20	B	O
	ATOM	1670	N	LEU	B	316	36.697	77.580	41.803	1.00	17.89	B	N
50	ATOM	1671	CA	LEU	B	316	36.922	78.197	40.500	1.00	19.09	B	C
	ATOM	1672	CB	LEU	B	316	35.738	79.081	40.125	1.00	19.10	B	C
	ATOM	1673	CG	LEU	B	316	35.803	79.667	38.714	1.00	19.18	B	C
	ATOM	1674	CD1	LEU	B	316	35.511	78.565	37.712	1.00	18.12	B	C
	ATOM	1675	CD2	LEU	B	316	34.792	80.793	38.564	1.00	15.19	B	C
55	ATOM	1676	C	LEU	B	316	38.186	79.040	40.502	1.00	20.47	B	C
	ATOM	1677	O	LEU	B	316	38.992	78.990	39.582	1.00	22.34	B	O
	ATOM	1678	N	ARG	B	317	38.346	79.828	41.550	1.00	23.32	B	N
	ATOM	1679	CA	ARG	B	317	39.505	80.690	41.699	1.00	23.73	B	C
	ATOM	1680	CB	ARG	B	317	39.353	81.492	42.992	1.00	27.00	B	C
60	ATOM	1681	CG	ARG	B	317	40.393	82.564	43.215	1.00	32.62	B	C
	ATOM	1682	CD	ARG	B	317	39.900	83.587	44.235	1.00	37.03	B	C
	ATOM	1683	NE	ARG	B	317	39.417	82.969	45.473	1.00	39.86	B	N
	ATOM	1684	CZ	ARG	B	317	38.184	83.122	45.950	1.00	39.91	B	C
	ATOM	1685	NH1	ARG	B	317	37.309	83.871	45.293	1.00	40.57	B	N
65	ATOM	1686	NH2	ARG	B	317	37.827	82.534	47.084	1.00	39.50	B	N
	ATOM	1687	C	ARG	B	317	40.803	79.882	41.732	1.00	22.18	B	C
	ATOM	1688	O	ARG	B	317	41.800	80.273	41.135	1.00	21.93	B	O
	ATOM	1689	N	PHE	B	318	40.789	78.750	42.426	1.00	22.23	B	N
	ATOM	1690	CA	PHE	B	318	41.984	77.923	42.540	1.00	20.18	B	C

	ATOM	1691	CB	PHE	B	318	41.830	76.912	43.675	1.00	19.03	B	C
	ATOM	1692	CG	PHE	B	318	43.002	75.978	43.811	1.00	19.71	B	C
	ATOM	1693	CD1	PHE	B	318	44.071	76.296	44.640	1.00	19.47	B	C
5	ATOM	1694	CD2	PHE	B	318	43.045	74.783	43.093	1.00	21.06	B	C
	ATOM	1695	CE1	PHE	B	318	45.174	75.439	44.756	1.00	17.61	B	C
	ATOM	1696	CE2	PHE	B	318	44.140	73.920	43.199	1.00	18.70	B	C
	ATOM	1697	CZ	PHE	B	318	45.208	74.251	44.034	1.00	16.32	B	C
	ATOM	1698	C	PHE	B	318	42.331	77.181	41.258	1.00	21.95	B	C
10	ATOM	1699	O	PHE	B	318	43.507	76.956	40.959	1.00	21.03	B	O
	ATOM	1700	N	ILE	B	319	41.318	76.777	40.505	1.00	21.84	B	N
	ATOM	1701	CA	ILE	B	319	41.586	76.070	39.265	1.00	20.33	B	C
	ATOM	1702	CB	ILE	B	319	40.284	75.639	38.577	1.00	16.16	B	C
	ATOM	1703	CG2	ILE	B	319	40.587	75.113	37.183	1.00	17.32	B	C
	ATOM	1704	CG1	ILE	B	319	39.593	74.569	39.422	1.00	11.49	B	C
15	ATOM	1705	CD1	ILE	B	319	38.301	74.070	38.847	1.00	10.07	B	C
	ATOM	1706	C	ILE	B	319	42.388	76.988	38.345	1.00	21.72	B	C
	ATOM	1707	O	ILE	B	319	43.430	76.590	37.810	1.00	20.33	B	O
	ATOM	1708	N	LYS	B	320	41.915	78.221	38.186	1.00	18.47	B	N
20	ATOM	1709	CA	LYS	B	320	42.587	79.189	37.334	1.00	20.50	B	C
	ATOM	1710	CB	LYS	B	320	41.789	80.489	37.282	1.00	18.65	B	C
	ATOM	1711	CG	LYS	B	320	40.371	80.314	36.770	1.00	18.68	B	C
	ATOM	1712	CD	LYS	B	320	39.718	81.654	36.509	1.00	15.49	B	C
	ATOM	1713	CE	LYS	B	320	38.369	81.489	35.848	1.00	18.68	B	C
25	ATOM	1714	NZ	LYS	B	320	37.583	82.746	35.906	1.00	24.35	B	N
	ATOM	1715	C	LYS	B	320	44.005	79.471	37.822	1.00	22.19	B	C
	ATOM	1716	O	LYS	B	320	44.941	79.566	37.029	1.00	23.86	B	O
	ATOM	1717	N	LYS	B	321	44.165	79.603	39.130	1.00	22.15	B	N
	ATOM	1718	CA	LYS	B	321	45.477	79.868	39.697	1.00	22.58	B	C
30	ATOM	1719	CB	LYS	B	321	45.358	80.117	41.201	1.00	22.00	B	C
	ATOM	1720	CG	LYS	B	321	46.571	80.793	41.822	1.00	28.30	B	C
	ATOM	1721	CD	LYS	B	321	46.911	82.100	41.112	1.00	34.77	B	C
	ATOM	1722	CE	LYS	B	321	48.043	82.851	41.814	1.00	36.91	B	C
	ATOM	1723	NZ	LYS	B	321	48.986	81.940	42.528	1.00	38.87	B	N
35	ATOM	1724	C	LYS	B	321	46.427	78.703	39.437	1.00	23.75	B	C
	ATOM	1725	O	LYS	B	321	47.604	78.907	39.151	1.00	24.77	B	O
	ATOM	1726	N	SER	B	322	45.916	77.481	39.534	1.00	23.84	B	N
	ATOM	1727	CA	SER	B	322	46.741	76.299	39.312	1.00	23.08	B	C
	ATOM	1728	CB	SER	B	322	45.948	75.023	39.627	1.00	17.97	B	C
40	ATOM	1729	OG	SER	B	322	44.933	74.789	38.669	1.00	17.77	B	O
	ATOM	1730	C	SER	B	322	47.261	76.252	37.876	1.00	27.06	B	C
	ATOM	1731	O	SER	B	322	48.377	75.792	37.624	1.00	24.99	B	O
	ATOM	1732	N	TYR	B	323	46.455	76.730	36.933	1.00	30.13	B	N
	ATOM	1733	CA	TYR	B	323	46.861	76.736	35.531	1.00	30.99	B	C
45	ATOM	1734	CB	TYR	B	323	45.666	77.045	34.635	1.00	32.58	B	C
	ATOM	1735	CG	TYR	B	323	46.009	77.083	33.166	1.00	35.78	B	C
	ATOM	1736	CD1	TYR	B	323	46.376	78.276	32.548	1.00	36.89	B	C
	ATOM	1737	CE1	TYR	B	323	46.683	78.322	31.192	1.00	38.23	B	C
	ATOM	1738	CD2	TYR	B	323	45.958	75.926	32.390	1.00	36.46	B	C
50	ATOM	1739	CE2	TYR	B	323	46.262	75.958	31.036	1.00	38.95	B	C
	ATOM	1740	CZ	TYR	B	323	46.624	77.160	30.442	1.00	40.91	B	C
	ATOM	1741	OH	TYR	B	323	46.921	77.198	29.096	1.00	45.15	B	O
	ATOM	1742	C	TYR	B	323	47.945	77.781	35.308	1.00	30.05	B	C
	ATOM	1743	O	TYR	B	323	48.923	77.549	34.602	1.00	29.44	B	O
55	ATOM	1744	N	GLN	B	324	47.758	78.938	35.923	1.00	30.81	B	N
	ATOM	1745	CA	GLN	B	324	48.704	80.031	35.799	1.00	31.54	B	C
	ATOM	1746	CB	GLN	B	324	48.210	81.232	36.613	1.00	33.76	B	C
	ATOM	1747	CG	GLN	B	324	49.207	82.368	36.765	1.00	38.62	B	C
	ATOM	1748	CD	GLN	B	324	48.981	83.180	38.037	1.00	43.88	B	C
60	ATOM	1749	OE1	GLN	B	324	47.867	83.642	38.306	1.00	45.25	B	O
	ATOM	1750	NE2	GLN	B	324	50.040	83.353	38.827	1.00	42.78	B	N
	ATOM	1751	C	GLN	B	324	50.107	79.633	36.249	1.00	29.89	B	C
	ATOM	1752	O	GLN	B	324	51.094	80.068	35.660	1.00	30.32	B	O
	ATOM	1753	N	VAL	B	325	50.203	78.793	37.274	1.00	29.45	B	N
65	ATOM	1754	CA	VAL	B	325	51.518	78.396	37.780	1.00	27.33	B	C
	ATOM	1755	CB	VAL	B	325	51.631	78.643	39.321	1.00	23.91	B	C
	ATOM	1756	CG1	VAL	B	325	50.760	79.811	39.732	1.00	22.90	B	C
	ATOM	1757	CG2	VAL	B	325	51.246	77.401	40.087	1.00	25.28	B	C
	ATOM	1758	C	VAL	B	325	51.976	76.965	37.489	1.00	27.54	B	C

	ATOM	1759	O	VAL	B	325	53.172	76.682	37.533	1.00	27.83	B	O
	ATOM	1760	N	ASP	B	326	51.046	76.064	37.193	1.00	28.01	B	N
	ATOM	1761	CA	ASP	B	326	51.417	74.675	36.921	1.00	25.92	B	C
	ATOM	1762	CB	ASP	B	326	50.787	73.740	37.964	1.00	27.07	B	C
5	ATOM	1763	CG	ASP	B	326	51.557	73.712	39.280	1.00	27.32	B	C
	ATOM	1764	OD1	ASP	B	326	52.691	74.241	39.338	1.00	26.89	B	O
	ATOM	1765	OD2	ASP	B	326	51.021	73.155	40.265	1.00	26.71	B	O
	ATOM	1766	C	ASP	B	326	50.967	74.233	35.537	1.00	26.71	B	C
	ATOM	1767	O	ASP	B	326	50.792	73.043	35.299	1.00	29.00	B	O
10	ATOM	1768	N	ALA	B	327	50.778	75.184	34.627	1.00	26.18	B	N
	ATOM	1769	CA	ALA	B	327	50.326	74.867	33.275	1.00	27.92	B	C
	ATOM	1770	CB	ALA	B	327	50.377	76.117	32.403	1.00	24.12	B	C
	ATOM	1771	C	ALA	B	327	51.111	73.737	32.605	1.00	30.59	B	C
	ATOM	1772	O	ALA	B	327	50.534	72.924	31.863	1.00	29.53	B	O
15	ATOM	1773	N	ASP	B	328	52.414	73.675	32.873	1.00	30.19	B	N
	ATOM	1774	CA	ASP	B	328	53.264	72.654	32.261	1.00	34.59	B	C
	ATOM	1775	CB	ASP	B	328	54.492	73.313	31.621	1.00	36.42	B	C
	ATOM	1776	CG	ASP	B	328	54.117	74.324	30.542	1.00	41.64	B	C
	ATOM	1777	OD1	ASP	B	328	53.327	73.978	29.630	1.00	39.53	B	O
20	ATOM	1778	OD2	ASP	B	328	54.614	75.470	30.611	1.00	42.69	B	O
	ATOM	1779	C	ASP	B	328	53.718	71.530	33.189	1.00	34.80	B	C
	ATOM	1780	O	ASP	B	328	54.651	70.795	32.869	1.00	35.35	B	O
	ATOM	1781	N	ARG	B	329	53.053	71.397	34.333	1.00	32.77	B	N
	ATOM	1782	CA	ARG	B	329	53.373	70.353	35.299	1.00	28.99	B	C
25	ATOM	1783	CB	ARG	B	329	52.837	70.741	36.687	1.00	30.01	B	C
	ATOM	1784	CG	ARG	B	329	53.674	70.270	37.868	1.00	29.41	B	C
	ATOM	1785	CD	ARG	B	329	52.860	69.436	38.858	1.00	31.45	B	C
	ATOM	1786	NE	ARG	B	329	52.409	70.222	40.005	1.00	31.20	B	N
	ATOM	1787	CZ	ARG	B	329	52.372	69.788	41.263	1.00	30.62	B	C
30	ATOM	1788	NH1	ARG	B	329	52.754	68.560	41.568	1.00	31.76	B	N
	ATOM	1789	NH2	ARG	B	329	51.929	70.584	42.222	1.00	31.93	B	N
	ATOM	1790	C	ARG	B	329	52.697	69.067	34.847	1.00	27.45	B	C
	ATOM	1791	O	ARG	B	329	51.541	69.093	34.417	1.00	24.31	B	O
	ATOM	1792	N	VAL	B	330	53.414	67.947	34.923	1.00	27.26	B	N
35	ATOM	1793	CA	VAL	B	330	52.817	66.667	34.552	1.00	28.13	B	C
	ATOM	1794	CB	VAL	B	330	53.869	65.557	34.423	1.00	27.49	B	C
	ATOM	1795	CG1	VAL	B	330	53.183	64.227	34.114	1.00	25.12	B	C
	ATOM	1796	CG2	VAL	B	330	54.846	65.909	33.327	1.00	23.10	B	C
	ATOM	1797	C	VAL	B	330	51.889	66.364	35.719	1.00	29.01	B	C
40	ATOM	1798	O	VAL	B	330	52.329	66.261	36.869	1.00	28.49	B	O
	ATOM	1799	N	VAL	B	331	50.605	66.221	35.428	1.00	29.37	B	N
	ATOM	1800	CA	VAL	B	331	49.638	66.015	36.489	1.00	29.75	B	C
	ATOM	1801	CB	VAL	B	331	48.853	67.330	36.689	1.00	29.23	B	C
	ATOM	1802	CG1	VAL	B	331	47.570	67.306	35.888	1.00	27.11	B	C
45	ATOM	1803	CG2	VAL	B	331	48.592	67.555	38.151	1.00	35.23	B	C
	ATOM	1804	C	VAL	B	331	48.666	64.857	36.302	1.00	28.67	B	C
	ATOM	1805	O	VAL	B	331	48.009	64.431	37.251	1.00	27.30	B	O
	ATOM	1806	N	TYR	B	332	48.586	64.344	35.081	1.00	30.15	B	N
	ATOM	1807	CA	TYR	B	332	47.673	63.256	34.759	1.00	33.33	B	C
50	ATOM	1808	CB	TYR	B	332	46.532	63.819	33.914	1.00	31.15	B	C
	ATOM	1809	CG	TYR	B	332	45.485	62.833	33.457	1.00	32.84	B	C
	ATOM	1810	CD1	TYR	B	332	44.337	62.603	34.216	1.00	32.96	B	C
	ATOM	1811	CE1	TYR	B	332	43.326	61.761	33.758	1.00	34.86	B	C
	ATOM	1812	CD2	TYR	B	332	45.600	62.188	32.224	1.00	34.71	B	C
55	ATOM	1813	CE2	TYR	B	332	44.592	61.342	31.754	1.00	35.87	B	C
	ATOM	1814	CZ	TYR	B	332	43.457	61.136	32.526	1.00	36.07	B	C
	ATOM	1815	OH	TYR	B	332	42.450	60.319	32.060	1.00	38.00	B	O
	ATOM	1816	C	TYR	B	332	48.425	62.172	33.999	1.00	36.90	B	C
	ATOM	1817	O	TYR	B	332	49.383	62.464	33.288	1.00	38.11	B	O
60	ATOM	1818	N	SER	B	333	48.000	60.921	34.144	1.00	41.10	B	N
	ATOM	1819	CA	SER	B	333	48.679	59.833	33.453	1.00	43.78	B	C
	ATOM	1820	CB	SER	B	333	49.163	58.788	34.458	1.00	45.05	B	C
	ATOM	1821	OG	SER	B	333	49.534	57.595	33.788	1.00	46.10	B	O
	ATOM	1822	C	SER	B	333	47.841	59.143	32.383	1.00	46.86	B	C
65	ATOM	1823	O	SER	B	333	46.737	58.662	32.649	1.00	45.71	B	O
	ATOM	1824	N	THR	B	334	48.377	59.114	31.166	1.00	49.21	B	N
	ATOM	1825	CA	THR	B	334	47.726	58.458	30.036	1.00	53.47	B	C
	ATOM	1826	CB	THR	B	334	47.122	59.475	29.028	1.00	53.52	B	C

	ATOM	1827	OG1	THR	B	334	45.721	59.212	28.884	1.00	53.44	B	O
	ATOM	1828	CG2	THR	B	334	47.786	59.357	27.655	1.00	52.85	B	C
	ATOM	1829	C	THR	B	334	48.793	57.621	29.348	1.00	56.01	B	C
5	ATOM	1830	O	THR	B	334	49.952	58.032	29.254	1.00	55.31	B	O
	ATOM	1831	N	LYS	B	335	48.392	56.447	28.872	1.00	57.92	B	N
	ATOM	1832	CA	LYS	B	335	49.305	55.520	28.215	1.00	59.57	B	C
	ATOM	1833	CB	LYS	B	335	48.529	54.579	27.295	1.00	56.63	B	C
	ATOM	1834	CG	LYS	B	335	49.075	53.156	27.282	1.00	53.97	B	C
10	ATOM	1835	CD	LYS	B	335	50.575	53.095	26.986	1.00	49.70	B	C
	ATOM	1836	CE	LYS	B	335	51.305	52.218	27.997	1.00	48.07	B	C
	ATOM	1837	NZ	LYS	B	335	52.321	51.323	27.372	1.00	46.05	B	N
	ATOM	1838	C	LYS	B	335	50.454	56.151	27.431	1.00	62.18	B	C
	ATOM	1839	O	LYS	B	335	51.546	56.359	27.971	1.00	64.82	B	O
15	ATOM	1840	N	GLU	B	336	50.209	56.450	26.158	1.00	62.33	B	N
	ATOM	1841	CA	GLU	B	336	51.244	57.023	25.302	1.00	62.22	B	C
	ATOM	1842	CB	GLU	B	336	50.699	57.258	23.889	1.00	65.07	B	C
	ATOM	1843	CG	GLU	B	336	51.568	56.644	22.785	1.00	68.83	B	C
	ATOM	1844	CD	GLU	B	336	52.635	55.684	23.321	1.00	70.62	B	C
20	ATOM	1845	OE1	GLU	B	336	53.745	56.151	23.674	1.00	69.80	B	O
	ATOM	1846	OE2	GLU	B	336	52.359	54.462	23.387	1.00	69.02	B	O
	ATOM	1847	C	GLU	B	336	51.878	58.305	25.827	1.00	60.11	B	C
	ATOM	1848	O	GLU	B	336	52.928	58.726	25.335	1.00	59.38	B	O
	ATOM	1849	N	LYS	B	337	51.253	58.923	26.827	1.00	57.71	B	N
25	ATOM	1850	CA	LYS	B	337	51.806	60.145	27.389	1.00	53.49	B	C
	ATOM	1851	CB	LYS	B	337	51.862	61.234	26.313	1.00	53.36	B	C
	ATOM	1852	CG	LYS	B	337	52.670	62.456	26.706	1.00	52.64	B	C
	ATOM	1853	CD	LYS	B	337	52.370	63.633	25.791	1.00	52.20	B	C
	ATOM	1854	CE	LYS	B	337	52.812	64.942	26.427	1.00	55.15	B	C
30	ATOM	1855	NZ	LYS	B	337	54.030	65.524	25.790	1.00	52.07	B	N
	ATOM	1856	C	LYS	B	337	51.047	60.675	28.593	1.00	51.28	B	C
	ATOM	1857	O	LYS	B	337	49.832	60.877	28.538	1.00	51.53	B	O
	ATOM	1858	N	ASN	B	338	51.767	60.885	29.690	1.00	47.96	B	N
	ATOM	1859	CA	ASN	B	338	51.154	61.447	30.880	1.00	45.20	B	C
35	ATOM	1860	CB	ASN	B	338	52.107	61.359	32.072	1.00	45.24	B	C
	ATOM	1861	CG	ASN	B	338	52.523	59.929	32.383	1.00	44.57	B	C
	ATOM	1862	OD1	ASN	B	338	51.702	59.004	32.347	1.00	43.83	B	O
	ATOM	1863	ND2	ASN	B	338	53.802	59.740	32.691	1.00	41.25	B	N
	ATOM	1864	C	ASN	B	338	50.980	62.892	30.433	1.00	43.27	B	C
40	ATOM	1865	O	ASN	B	338	51.829	63.414	29.712	1.00	39.01	B	O
	ATOM	1866	N	LEU	B	339	49.891	63.535	30.838	1.00	39.85	B	N
	ATOM	1867	CA	LEU	B	339	49.642	64.903	30.405	1.00	34.43	B	C
	ATOM	1868	CB	LEU	B	339	48.170	65.066	30.034	1.00	33.37	B	C
	ATOM	1869	CG	LEU	B	339	47.511	63.827	29.439	1.00	36.45	B	C
45	ATOM	1870	CD1	LEU	B	339	45.999	63.994	29.441	1.00	33.73	B	C
	ATOM	1871	CD2	LEU	B	339	48.041	63.609	28.028	1.00	32.48	B	C
	ATOM	1872	C	LEU	B	339	50.003	65.968	31.412	1.00	33.34	B	C
	ATOM	1873	O	LEU	B	339	50.080	65.710	32.610	1.00	34.91	B	O
	ATOM	1874	N	THR	B	340	50.237	67.173	30.908	1.00	31.71	B	N
50	ATOM	1875	CA	THR	B	340	50.528	68.312	31.761	1.00	29.66	B	C
	ATOM	1876	CB	THR	B	340	51.373	69.375	31.040	1.00	30.18	B	C
	ATOM	1877	OG1	THR	B	340	50.671	69.840	29.885	1.00	30.61	B	O
	ATOM	1878	CG2	THR	B	340	52.710	68.805	30.625	1.00	27.56	B	C
	ATOM	1879	C	THR	B	340	49.153	68.899	32.048	1.00	28.94	B	C
55	ATOM	1880	O	THR	B	340	48.162	68.491	31.431	1.00	28.01	B	O
	ATOM	1881	N	LEU	B	341	49.080	69.840	32.982	1.00	29.78	B	N
	ATOM	1882	CA	LEU	B	341	47.801	70.459	33.314	1.00	29.20	B	C
	ATOM	1883	CB	LEU	B	341	48.005	71.593	34.324	1.00	29.00	B	C
	ATOM	1884	CG	LEU	B	341	46.752	72.322	34.822	1.00	29.43	B	C
60	ATOM	1885	CD1	LEU	B	341	45.669	71.313	35.192	1.00	28.33	B	C
	ATOM	1886	CD2	LEU	B	341	47.116	73.185	36.016	1.00	23.15	B	C
	ATOM	1887	C	LEU	B	341	47.172	71.008	32.035	1.00	30.38	B	C
	ATOM	1888	O	LEU	B	341	45.976	70.830	31.789	1.00	29.72	B	O
	ATOM	1889	N	LYS	B	342	47.996	71.662	31.219	1.00	30.43	B	N
65	ATOM	1890	CA	LYS	B	342	47.545	72.239	29.961	1.00	28.42	B	C
	ATOM	1891	CB	LYS	B	342	48.704	72.948	29.275	1.00	29.65	B	C
	ATOM	1892	CG	LYS	B	342	48.278	73.921	28.194	1.00	33.59	B	C
	ATOM	1893	CD	LYS	B	342	49.489	74.627	27.585	1.00	39.33	B	C
	ATOM	1894	CE	LYS	B	342	49.181	76.077	27.212	1.00	43.19	B	C

	ATOM	1895	NZ	LYS	B	342	49.944	77.060	28.046	1.00	45.31	B	N
	ATOM	1896	C	LYS	B	342	46.980	71.178	29.032	1.00	28.08	B	C
	ATOM	1897	O	LYS	B	342	45.879	71.330	28.504	1.00	28.45	B	O
5	ATOM	1898	N	GLN	B	343	47.733	70.101	28.842	1.00	26.59	B	N
	ATOM	1899	CA	GLN	B	343	47.305	69.019	27.965	1.00	29.13	B	C
	ATOM	1900	CB	GLN	B	343	48.383	67.946	27.884	1.00	30.96	B	C
	ATOM	1901	CG	GLN	B	343	49.613	68.371	27.114	1.00	31.09	B	C
	ATOM	1902	CD	GLN	B	343	50.735	67.374	27.252	1.00	35.29	B	C
10	ATOM	1903	OE1	GLN	B	343	50.531	66.257	27.732	1.00	41.42	B	O
	ATOM	1904	NE2	GLN	B	343	51.928	67.764	26.831	1.00	33.15	B	N
	ATOM	1905	C	GLN	B	343	46.011	68.380	28.422	1.00	29.18	B	C
	ATOM	1906	O	GLN	B	343	45.205	67.937	27.600	1.00	30.88	B	O
	ATOM	1907	N	LEU	B	344	45.820	68.318	29.735	1.00	28.82	B	N
15	ATOM	1908	CA	LEU	B	344	44.611	67.725	30.283	1.00	27.33	B	C
	ATOM	1909	CB	LEU	B	344	44.720	67.605	31.807	1.00	25.61	B	C
	ATOM	1910	CG	LEU	B	344	43.503	66.998	32.514	1.00	25.90	B	C
	ATOM	1911	CD1	LEU	B	344	43.079	65.709	31.812	1.00	21.63	B	C
	ATOM	1912	CD2	LEU	B	344	43.839	66.740	33.979	1.00	23.42	B	C
20	ATOM	1913	C	LEU	B	344	43.417	68.588	29.901	1.00	24.32	B	C
	ATOM	1914	O	LEU	B	344	42.379	68.080	29.484	1.00	23.29	B	O
	ATOM	1915	N	PHE	B	345	43.573	69.898	30.033	1.00	24.54	B	N
	ATOM	1916	CA	PHE	B	345	42.495	70.816	29.685	1.00	28.34	B	C
	ATOM	1917	CB	PHE	B	345	42.825	72.230	30.171	1.00	24.50	B	C
	ATOM	1918	CG	PHE	B	345	42.500	72.457	31.621	1.00	21.31	B	C
25	ATOM	1919	CD1	PHE	B	345	41.193	72.338	32.082	1.00	22.49	B	C
	ATOM	1920	CD2	PHE	B	345	43.500	72.767	32.532	1.00	22.31	B	C
	ATOM	1921	CE1	PHE	B	345	40.890	72.522	33.430	1.00	21.08	B	C
	ATOM	1922	CE2	PHE	B	345	43.205	72.954	33.883	1.00	20.96	B	C
	ATOM	1923	CZ	PHE	B	345	41.896	72.830	34.330	1.00	19.30	B	C
30	ATOM	1924	C	PHE	B	345	42.250	70.808	28.177	1.00	29.77	B	C
	ATOM	1925	O	PHE	B	345	41.126	71.043	27.722	1.00	30.50	B	O
	ATOM	1926	N	ASP	B	346	43.303	70.533	27.408	1.00	31.81	B	N
	ATOM	1927	CA	ASP	B	346	43.199	70.458	25.953	1.00	32.02	B	C
	ATOM	1928	CB	ASP	B	346	44.578	70.293	25.324	1.00	37.28	B	C
35	ATOM	1929	CG	ASP	B	346	45.221	71.615	24.974	1.00	41.66	B	C
	ATOM	1930	OD1	ASP	B	346	44.669	72.668	25.362	1.00	43.53	B	O
	ATOM	1931	OD2	ASP	B	346	46.285	71.598	24.314	1.00	43.83	B	O
	ATOM	1932	C	ASP	B	346	42.361	69.238	25.614	1.00	31.20	B	C
	ATOM	1933	O	ASP	B	346	41.483	69.288	24.764	1.00	31.94	B	O
40	ATOM	1934	N	LYS	B	347	42.657	68.139	26.290	1.00	31.01	B	N
	ATOM	1935	CA	LYS	B	347	41.945	66.887	26.102	1.00	32.37	B	C
	ATOM	1936	CB	LYS	B	347	42.609	65.798	26.952	1.00	34.48	B	C
	ATOM	1937	CG	LYS	B	347	42.218	64.380	26.593	1.00	40.04	B	C
	ATOM	1938	CD	LYS	B	347	41.468	63.713	27.736	1.00	44.70	B	C
45	ATOM	1939	CE	LYS	B	347	42.321	62.668	28.429	1.00	45.23	B	C
	ATOM	1940	NZ	LYS	B	347	41.720	61.311	28.321	1.00	46.28	B	N
	ATOM	1941	C	LYS	B	347	40.481	67.046	26.510	1.00	32.60	B	C
	ATOM	1942	O	LYS	B	347	39.603	66.351	25.999	1.00	34.96	B	O
	ATOM	1943	N	LEU	B	348	40.222	67.963	27.437	1.00	31.67	B	N
50	ATOM	1944	CA	LEU	B	348	38.868	68.197	27.912	1.00	32.42	B	C
	ATOM	1945	CB	LEU	B	348	38.890	68.601	29.388	1.00	31.11	B	C
	ATOM	1946	CG	LEU	B	348	39.210	67.480	30.384	1.00	31.27	B	C
	ATOM	1947	CD1	LEU	B	348	39.532	68.092	31.739	1.00	31.09	B	C
	ATOM	1948	CD2	LEU	B	348	38.032	66.514	30.495	1.00	29.33	B	C
55	ATOM	1949	C	LEU	B	348	38.167	69.268	27.091	1.00	32.90	B	C
	ATOM	1950	O	LEU	B	348	36.955	69.446	27.198	1.00	33.74	B	O
	ATOM	1951	N	LYS	B	349	38.936	69.982	26.278	1.00	33.03	B	N
	ATOM	1952	CA	LYS	B	349	38.397	71.033	25.421	1.00	35.43	B	C
	ATOM	1953	CB	LYS	B	349	37.205	70.491	24.619	1.00	40.99	B	C
60	ATOM	1954	CG	LYS	B	349	36.533	71.506	23.689	1.00	49.49	B	C
	ATOM	1955	CD	LYS	B	349	35.087	71.801	24.113	1.00	51.78	B	C
	ATOM	1956	CE	LYS	B	349	34.790	73.302	24.084	1.00	54.49	B	C
	ATOM	1957	NZ	LYS	B	349	35.382	73.987	22.889	1.00	53.90	B	N
	ATOM	1958	C	LYS	B	349	37.977	72.272	26.212	1.00	34.69	B	C
65	ATOM	1959	O	LYS	B	349	36.887	72.811	26.014	1.00	34.39	B	O
	ATOM	1960	N	LEU	B	350	38.844	72.731	27.108	1.00	31.81	B	N
	ATOM	1961	CA	LEU	B	350	38.526	73.912	27.896	1.00	29.11	B	C
	ATOM	1962	CB	LEU	B	350	37.819	73.528	29.204	1.00	28.43	B	C

	ATOM	1963	CG	LEU	B	350	37.077	72.199	29.343	1.00	30.55	B	C
	ATOM	1964	CD1	LEU	B	350	37.343	71.609	30.721	1.00	29.70	B	C
	ATOM	1965	CD2	LEU	B	350	35.588	72.421	29.137	1.00	28.04	B	C
5	ATOM	1966	C	LEU	B	350	39.751	74.722	28.252	1.00	28.84	B	C
	ATOM	1967	O	LEU	B	350	40.862	74.199	28.300	1.00	28.52	B	O
	ATOM	1968	N	HIS	B	351	39.545	76.013	28.477	1.00	30.88	B	N
	ATOM	1969	CA	HIS	B	351	40.627	76.871	28.914	1.00	32.08	B	C
	ATOM	1970	CB	HIS	B	351	40.923	78.003	27.937	1.00	34.60	B	C
10	ATOM	1971	CG	HIS	B	351	42.156	78.774	28.297	1.00	40.29	B	C
	ATOM	1972	CD2	HIS	B	351	42.374	79.709	29.254	1.00	41.63	B	C
	ATOM	1973	ND1	HIS	B	351	43.376	78.557	27.693	1.00	41.56	B	N
	ATOM	1974	CE1	HIS	B	351	44.292	79.320	28.264	1.00	42.95	B	C
	ATOM	1975	NE2	HIS	B	351	43.710	80.029	29.214	1.00	42.67	B	N
15	ATOM	1976	C	HIS	B	351	40.176	77.461	30.242	1.00	31.93	B	C
	ATOM	1977	O	HIS	B	351	39.221	78.239	30.302	1.00	30.28	B	O
	ATOM	1978	N	PRO	B	352	40.848	77.075	31.331	1.00	31.07	B	N
	ATOM	1979	CD	PRO	B	352	41.966	76.124	31.356	1.00	31.15	B	C
	ATOM	1980	CA	PRO	B	352	40.523	77.559	32.671	1.00	31.52	B	C
20	ATOM	1981	CB	PRO	B	352	41.814	77.341	33.461	1.00	31.07	B	C
	ATOM	1982	CG	PRO	B	352	42.735	76.551	32.557	1.00	29.81	B	C
	ATOM	1983	C	PRO	B	352	40.041	79.010	32.747	1.00	31.36	B	C
	ATOM	1984	O	PRO	B	352	39.028	79.291	33.387	1.00	33.31	B	O
	ATOM	1985	N	TYR	B	353	40.748	79.921	32.085	1.00	28.99	B	N
25	ATOM	1986	CA	TYR	B	353	40.392	81.336	32.132	1.00	28.96	B	C
	ATOM	1987	CB	TYR	B	353	41.461	82.164	31.416	1.00	31.12	B	C
	ATOM	1988	CG	TYR	B	353	42.822	82.067	32.073	1.00	34.44	B	C
	ATOM	1989	CD1	TYR	B	353	42.978	81.442	33.316	1.00	35.30	B	C
	ATOM	1990	CE1	TYR	B	353	44.233	81.325	33.918	1.00	35.80	B	C
30	ATOM	1991	CD2	TYR	B	353	43.961	82.577	31.445	1.00	36.77	B	C
	ATOM	1992	CE2	TYR	B	353	45.229	82.466	32.040	1.00	37.52	B	C
	ATOM	1993	CZ	TYR	B	353	45.355	81.838	33.275	1.00	37.46	B	C
	ATOM	1994	OH	TYR	B	353	46.597	81.717	33.863	1.00	35.24	B	O
	ATOM	1995	C	TYR	B	353	39.006	81.705	31.612	1.00	27.04	B	C
35	ATOM	1996	O	TYR	B	353	38.497	82.781	31.919	1.00	25.47	B	O
	ATOM	1997	N	ASP	B	354	38.393	80.819	30.836	1.00	26.54	B	N
	ATOM	1998	CA	ASP	B	354	37.052	81.070	30.308	1.00	25.68	B	C
	ATOM	1999	CB	ASP	B	354	36.885	80.450	28.918	1.00	28.50	B	C
	ATOM	2000	CG	ASP	B	354	37.805	81.067	27.890	1.00	33.34	B	C
40	ATOM	2001	OD1	ASP	B	354	37.969	82.307	27.904	1.00	35.31	B	O
	ATOM	2002	OD2	ASP	B	354	38.364	80.308	27.068	1.00	33.56	B	O
	ATOM	2003	C	ASP	B	354	36.011	80.472	31.239	1.00	22.26	B	C
	ATOM	2004	O	ASP	B	354	34.812	80.677	31.059	1.00	22.00	B	O
	ATOM	2005	N	LEU	B	355	36.478	79.721	32.231	1.00	21.14	B	N
45	ATOM	2006	CA	LEU	B	355	35.585	79.088	33.186	1.00	20.93	B	C
	ATOM	2007	CB	LEU	B	355	36.371	78.199	34.143	1.00	18.64	B	C
	ATOM	2008	CG	LEU	B	355	36.741	76.850	33.516	1.00	18.90	B	C
	ATOM	2009	CD1	LEU	B	355	37.381	75.969	34.562	1.00	18.91	B	C
	ATOM	2010	CD2	LEU	B	355	35.500	76.178	32.936	1.00	17.44	B	C
50	ATOM	2011	C	LEU	B	355	34.765	80.109	33.954	1.00	21.05	B	C
	ATOM	2012	O	LEU	B	355	35.180	81.256	34.153	1.00	18.54	B	O
	ATOM	2013	N	THR	B	356	33.594	79.664	34.385	1.00	20.20	B	N
	ATOM	2014	CA	THR	B	356	32.632	80.496	35.090	1.00	21.27	B	C
	ATOM	2015	CB	THR	B	356	31.630	81.012	34.042	1.00	18.45	B	C
55	ATOM	2016	OG1	THR	B	356	32.071	82.279	33.550	1.00	19.58	B	O
	ATOM	2017	CG2	THR	B	356	30.254	81.123	34.599	1.00	21.65	B	C
	ATOM	2018	C	THR	B	356	31.939	79.587	36.115	1.00	21.87	B	C
	ATOM	2019	O	THR	B	356	32.110	78.370	36.047	1.00	24.82	B	O
	ATOM	2020	N	VAL	B	357	31.184	80.127	37.072	1.00	20.00	B	N
60	ATOM	2021	CA	VAL	B	357	30.507	79.206	37.989	1.00	19.86	B	C
	ATOM	2022	CB	VAL	B	357	29.844	79.909	39.227	1.00	19.50	B	C
	ATOM	2023	CG1	VAL	B	357	30.838	80.856	39.890	1.00	15.25	B	C
	ATOM	2024	CG2	VAL	B	357	28.570	80.616	38.828	1.00	17.04	B	C
	ATOM	2025	C	VAL	B	357	29.441	78.458	37.180	1.00	19.85	B	C
	ATOM	2026	O	VAL	B	357	29.074	77.335	37.516	1.00	19.97	B	O
65	ATOM	2027	N	ASP	B	358	28.967	79.074	36.098	1.00	18.05	B	N
	ATOM	2028	CA	ASP	B	358	27.974	78.443	35.230	1.00	18.69	B	C
	ATOM	2029	CB	ASP	B	358	27.511	79.406	34.134	1.00	20.35	B	C
	ATOM	2030	CG	ASP	B	358	26.651	80.534	34.660	1.00	23.05	B	C

	ATOM	2031	OD1	ASP	B	358	25.996	80.359	35.715	1.00	26.94	B	O
	ATOM	2032	OD2	ASP	B	358	26.626	81.601	34.003	1.00	26.36	B	O
	ATOM	2033	C	ASP	B	358	28.577	77.210	34.555	1.00	17.83	B	C
	ATOM	2034	O	ASP	B	358	27.970	76.144	34.544	1.00	20.42	B	O
5	ATOM	2035	N	SER	B	359	29.767	77.365	33.982	1.00	17.44	B	N
	ATOM	2036	CA	SER	B	359	30.448	76.263	33.305	1.00	16.21	B	C
	ATOM	2037	CB	SER	B	359	31.552	76.795	32.382	1.00	13.41	B	C
	ATOM	2038	OG	SER	B	359	32.311	77.809	33.006	1.00	14.77	B	O
	ATOM	2039	C	SER	B	359	31.036	75.265	34.292	1.00	15.80	B	C
10	ATOM	2040	O	SER	B	359	31.188	74.086	33.973	1.00	16.15	B	O
	ATOM	2041	N	LEU	B	360	31.372	75.742	35.487	1.00	16.77	B	N
	ATOM	2042	CA	LEU	B	360	31.918	74.874	36.532	1.00	17.35	B	C
	ATOM	2043	CB	LEU	B	360	32.357	75.707	37.732	1.00	16.86	B	C
	ATOM	2044	CG	LEU	B	360	32.901	74.909	38.912	1.00	18.77	B	C
15	ATOM	2045	CD1	LEU	B	360	34.144	74.132	38.492	1.00	17.88	B	C
	ATOM	2046	CD2	LEU	B	360	33.212	75.863	40.055	1.00	19.03	B	C
	ATOM	2047	C	LEU	B	360	30.844	73.868	36.955	1.00	15.77	B	C
	ATOM	2048	O	LEU	B	360	31.152	72.740	37.324	1.00	15.04	B	O
	ATOM	2049	N	ASP	B	361	29.588	74.306	36.901	1.00	17.47	B	N
20	ATOM	2050	CA	ASP	B	361	28.418	73.486	37.213	1.00	21.07	B	C
	ATOM	2051	CB	ASP	B	361	28.063	72.638	35.978	1.00	22.89	B	C
	ATOM	2052	CG	ASP	B	361	26.565	72.462	35.789	1.00	27.76	B	C
	ATOM	2053	OD1	ASP	B	361	25.781	73.235	36.387	1.00	33.88	B	O
	ATOM	2054	OD2	ASP	B	361	26.173	71.545	35.038	1.00	29.50	B	O
25	ATOM	2055	C	ASP	B	361	28.502	72.577	38.450	1.00	22.54	B	C
	ATOM	2056	O	ASP	B	361	28.111	71.411	38.383	1.00	21.77	B	O
	ATOM	2057	N	VAL	B	362	28.981	73.097	39.579	1.00	23.59	B	N
	ATOM	2058	CA	VAL	B	362	29.073	72.279	40.786	1.00	23.21	B	C
	ATOM	2059	CB	VAL	B	362	30.387	72.530	41.553	1.00	20.22	B	C
30	ATOM	2060	CG1	VAL	B	362	31.525	71.809	40.857	1.00	17.95	B	C
	ATOM	2061	CG2	VAL	B	362	30.671	74.015	41.643	1.00	21.53	B	C
	ATOM	2062	C	VAL	B	362	27.895	72.506	41.731	1.00	26.32	B	C
	ATOM	2063	O	VAL	B	362	27.690	71.740	42.675	1.00	26.16	B	O
	ATOM	2064	N	HIS	B	363	27.118	73.553	41.468	1.00	27.59	B	N
35	ATOM	2065	CA	HIS	B	363	25.963	73.885	42.292	1.00	27.92	B	C
	ATOM	2066	CB	HIS	B	363	25.580	75.345	42.079	1.00	26.27	B	C
	ATOM	2067	CG	HIS	B	363	24.972	75.997	43.278	1.00	30.60	B	C
	ATOM	2068	CD2	HIS	B	363	25.542	76.532	44.384	1.00	28.01	B	C
	ATOM	2069	ND1	HIS	B	363	23.611	76.182	43.415	1.00	30.18	B	N
40	ATOM	2070	CE1	HIS	B	363	23.368	76.803	44.555	1.00	30.38	B	C
	ATOM	2071	NE2	HIS	B	363	24.523	77.026	45.160	1.00	31.32	B	N
	ATOM	2072	C	HIS	B	363	24.777	73.003	41.936	1.00	29.43	B	C
	ATOM	2073	O	HIS	B	363	24.498	72.771	40.757	1.00	32.38	B	O
	ATOM	2074	N	ALA	B	364	24.090	72.499	42.954	1.00	31.37	B	N
45	ATOM	2075	CA	ALA	B	364	22.925	71.643	42.748	1.00	33.21	B	C
	ATOM	2076	CB	ALA	B	364	22.573	70.913	44.036	1.00	34.84	B	C
	ATOM	2077	C	ALA	B	364	21.762	72.510	42.305	1.00	34.97	B	C
	ATOM	2078	O	ALA	B	364	21.482	73.544	42.912	1.00	37.95	B	O
	ATOM	2079	N	GLY	B	365	21.066	72.091	41.255	1.00	38.07	B	N
50	ATOM	2080	CA	GLY	B	365	19.961	72.903	40.762	1.00	39.66	B	C
	ATOM	2081	C	GLY	B	365	18.632	72.414	41.288	1.00	40.11	B	C
	ATOM	2082	O	GLY	B	365	18.552	72.043	42.451	1.00	43.49	B	O
	ATOM	2083	N	ARG	B	366	17.581	72.447	40.450	1.00	39.84	B	N
	ATOM	2084	CA	ARG	B	366	16.261	71.953	40.843	1.00	38.32	B	C
55	ATOM	2085	CB	ARG	B	366	15.150	72.477	39.939	1.00	37.77	B	C
	ATOM	2086	CG	ARG	B	366	15.425	73.806	39.349	1.00	35.84	B	C
	ATOM	2087	CD	ARG	B	366	14.394	74.787	39.840	1.00	34.71	B	C
	ATOM	2088	NE	ARG	B	366	14.402	75.941	38.957	1.00	36.93	B	N
	ATOM	2089	CZ	ARG	B	366	13.972	75.911	37.699	1.00	36.48	B	C
60	ATOM	2090	NH1	ARG	B	366	13.490	74.782	37.180	1.00	36.57	B	N
	ATOM	2091	NH2	ARG	B	366	14.048	77.007	36.955	1.00	39.51	B	N
	ATOM	2092	C	ARG	B	366	16.327	70.447	40.690	1.00	38.88	B	C
	ATOM	2093	O	ARG	B	366	15.630	69.701	41.385	1.00	41.48	B	O
	ATOM	2094	N	GLN	B	367	17.163	70.011	39.755	1.00	39.00	B	N
65	ATOM	2095	CA	GLN	B	367	17.373	68.586	39.490	1.00	41.90	B	C
	ATOM	2096	CB	GLN	B	367	18.069	68.393	38.126	1.00	42.41	B	C
	ATOM	2097	CG	GLN	B	367	19.326	67.506	38.121	1.00	45.87	B	C
	ATOM	2098	CD	GLN	B	367	20.615	68.316	37.917	1.00	49.64	B	C

	ATOM	2099	OE1	GLN	B	367	20.582	69.464	37.461	1.00	54.18	B	O
	ATOM	2100	NE2	GLN	B	367	21.755	67.719	38.268	1.00	49.44	B	N
	ATOM	2101	C	GLN	B	367	18.232	68.068	40.637	1.00	41.35	B	C
5	ATOM	2102	O	GLN	B	367	18.488	68.820	41.584	1.00	42.78	B	O
	ATOM	2103	N	THR	B	368	18.687	66.813	40.573	1.00	38.94	B	N
	ATOM	2104	CA	THR	B	368	19.487	66.231	41.658	1.00	36.85	B	C
	ATOM	2105	CB	THR	B	368	20.660	67.158	42.166	1.00	36.95	B	C
	ATOM	2106	OG1	THR	B	368	20.152	68.120	43.113	1.00	35.93	B	O
10	ATOM	2107	CG2	THR	B	368	21.362	67.881	40.983	1.00	37.86	B	C
	ATOM	2108	C	THR	B	368	18.551	66.003	42.846	1.00	33.83	B	C
	ATOM	2109	O	THR	B	368	18.828	65.182	43.735	1.00	34.20	B	O
	ATOM	2110	N	PHE	B	369	17.459	66.761	42.866	1.00	33.01	B	N
	ATOM	2111	CA	PHE	B	369	16.450	66.644	43.904	1.00	30.75	B	C
15	ATOM	2112	CB	PHE	B	369	15.355	67.695	43.697	1.00	30.27	B	C
	ATOM	2113	CG	PHE	B	369	14.266	67.620	44.717	1.00	31.59	B	C
	ATOM	2114	CD1	PHE	B	369	14.441	68.171	45.986	1.00	30.22	B	C
	ATOM	2115	CD2	PHE	B	369	13.091	66.923	44.438	1.00	29.98	B	C
	ATOM	2116	CE1	PHE	B	369	13.460	68.020	46.967	1.00	28.60	B	C
20	ATOM	2117	CE2	PHE	B	369	12.109	66.770	45.413	1.00	27.70	B	C
	ATOM	2118	CZ	PHE	B	369	12.291	67.317	46.674	1.00	26.21	B	C
	ATOM	2119	C	PHE	B	369	15.893	65.245	43.738	1.00	30.64	B	C
	ATOM	2120	O	PHE	B	369	15.255	64.951	42.723	1.00	29.31	B	O
	ATOM	2121	N	GLN	B	370	16.149	64.386	44.721	1.00	31.91	B	N
25	ATOM	2122	CA	GLN	B	370	15.707	62.996	44.654	1.00	30.70	B	C
	ATOM	2123	CB	GLN	B	370	14.179	62.912	44.643	1.00	30.12	B	C
	ATOM	2124	CG	GLN	B	370	13.627	62.741	46.048	1.00	31.63	B	C
	ATOM	2125	CD	GLN	B	370	12.161	63.094	46.154	1.00	33.75	B	C
	ATOM	2126	OE1	GLN	B	370	11.633	63.879	45.354	1.00	37.09	B	O
30	ATOM	2127	NE2	GLN	B	370	11.491	62.520	47.144	1.00	32.84	B	N
	ATOM	2128	C	GLN	B	370	16.321	62.360	43.408	1.00	30.08	B	C
	ATOM	2129	O	GLN	B	370	15.704	61.535	42.730	1.00	28.08	B	O
	ATOM	2130	N	ARG	B	371	17.543	62.794	43.104	1.00	27.69	B	N
	ATOM	2131	CA	ARG	B	371	18.331	62.261	41.996	1.00	26.62	B	C
35	ATOM	2132	CB	ARG	B	371	18.361	63.217	40.784	1.00	26.33	B	C
	ATOM	2133	CG	ARG	B	371	17.040	63.329	39.991	1.00	27.44	B	C
	ATOM	2134	CD	ARG	B	371	16.807	62.212	38.958	1.00	28.58	B	C
	ATOM	2135	NE	ARG	B	371	18.020	61.514	38.513	1.00	32.78	B	N
	ATOM	2136	CZ	ARG	B	371	18.570	61.653	37.299	1.00	34.84	B	C
40	ATOM	2137	NH1	ARG	B	371	18.023	62.474	36.404	1.00	35.64	B	N
	ATOM	2138	NH2	ARG	B	371	19.646	60.942	36.957	1.00	30.55	B	N
	ATOM	2139	C	ARG	B	371	19.706	62.196	42.636	1.00	26.42	B	C
	ATOM	2140	O	ARG	B	371	20.558	63.040	42.380	1.00	25.18	B	O
	ATOM	2141	N	PHE	B	372	19.912	61.210	43.508	1.00	28.12	B	N
45	ATOM	2142	CA	PHE	B	372	21.209	61.112	44.174	1.00	29.23	B	C
	ATOM	2143	CB	PHE	B	372	21.246	59.944	45.159	1.00	27.73	B	C
	ATOM	2144	CG	PHE	B	372	22.223	60.153	46.290	1.00	26.94	B	C
	ATOM	2145	CD1	PHE	B	372	21.858	60.904	47.411	1.00	25.51	B	C
	ATOM	2146	CD2	PHE	B	372	23.509	59.627	46.226	1.00	24.76	B	C
50	ATOM	2147	CE1	PHE	B	372	22.764	61.130	48.447	1.00	22.21	B	C
	ATOM	2148	CE2	PHE	B	372	24.420	59.846	47.249	1.00	25.95	B	C
	ATOM	2149	CZ	PHE	B	372	24.048	60.603	48.365	1.00	23.18	B	C
	ATOM	2150	C	PHE	B	372	22.310	60.955	43.147	1.00	30.14	B	C
	ATOM	2151	O	PHE	B	372	23.383	61.539	43.274	1.00	30.69	B	O
55	ATOM	2152	N	ASP	B	373	22.035	60.158	42.122	1.00	29.67	B	N
	ATOM	2153	CA	ASP	B	373	22.976	59.917	41.036	1.00	31.76	B	C
	ATOM	2154	CB	ASP	B	373	22.233	59.224	39.906	1.00	34.08	B	C
	ATOM	2155	CG	ASP	B	373	20.949	59.948	39.569	1.00	39.38	B	C
	ATOM	2156	OD1	ASP	B	373	21.028	60.926	38.782	1.00	44.18	B	O
60	ATOM	2157	OD2	ASP	B	373	19.880	59.567	40.110	1.00	41.17	B	O
	ATOM	2158	C	ASP	B	373	23.543	61.252	40.523	1.00	31.08	B	C
	ATOM	2159	O	ASP	B	373	24.756	61.389	40.297	1.00	28.33	B	O
	ATOM	2160	N	LYS	B	374	22.655	62.229	40.332	1.00	28.09	B	N
	ATOM	2161	CA	LYS	B	374	23.056	63.549	39.834	1.00	29.64	B	C
65	ATOM	2162	CB	LYS	B	374	21.835	64.347	39.366	1.00	33.08	B	C
	ATOM	2163	CG	LYS	B	374	21.274	63.899	38.017	1.00	36.20	B	C
	ATOM	2164	CD	LYS	B	374	21.063	65.086	37.079	1.00	37.59	B	C
	ATOM	2165	CE	LYS	B	374	20.555	64.623	35.724	1.00	40.10	B	C
	ATOM	2166	NZ	LYS	B	374	19.232	65.248	35.391	1.00	43.55	B	N

5	ATOM	2167	C	LYS	B	374	23.785	64.345	40.907	1.00	29.14	B	C
	ATOM	2168	O	LYS	B	374	24.621	65.202	40.604	1.00	29.30	B	O
	ATOM	2169	N	PHE	B	375	23.457	64.069	42.166	1.00	29.02	B	N
	ATOM	2170	CA	PHE	B	375	24.104	64.761	43.268	1.00	26.50	B	C
	ATOM	2171	CB	PHE	B	375	23.429	64.407	44.597	1.00	25.76	B	C
	ATOM	2172	CG	PHE	B	375	24.279	64.711	45.794	1.00	24.59	B	C
	ATOM	2173	CD1	PHE	B	375	24.566	66.028	46.135	1.00	24.59	B	C
	ATOM	2174	CD2	PHE	B	375	24.860	63.683	46.529	1.00	23.84	B	C
10	ATOM	2175	CE1	PHE	B	375	25.430	66.326	47.184	1.00	24.25	B	C
	ATOM	2176	CE2	PHE	B	375	25.725	63.966	47.581	1.00	22.69	B	C
	ATOM	2177	CZ	PHE	B	375	26.015	65.292	47.908	1.00	24.87	B	C
	ATOM	2178	C	PHE	B	375	25.584	64.374	43.326	1.00	25.19	B	C
15	ATOM	2179	O	PHE	B	375	26.459	65.236	43.413	1.00	22.77	B	O
	ATOM	2180	N	ASN	B	376	25.859	63.073	43.277	1.00	26.59	B	N
	ATOM	2181	CA	ASN	B	376	27.240	62.588	43.330	1.00	29.51	B	C
	ATOM	2182	CB	ASN	B	376	27.275	61.057	43.470	1.00	31.18	B	C
20	ATOM	2183	CG	ASN	B	376	27.785	60.600	44.841	1.00	35.07	B	C
	ATOM	2184	OD1	ASN	B	376	28.944	60.851	45.215	1.00	39.60	B	O
	ATOM	2185	ND2	ASN	B	376	26.924	59.926	45.595	1.00	32.58	B	N
	ATOM	2186	C	ASN	B	376	28.031	63.001	42.089	1.00	32.05	B	C
25	ATOM	2187	O	ASN	B	376	29.258	63.112	42.128	1.00	31.60	B	O
	ATOM	2188	N	ASP	B	377	27.332	63.239	40.981	1.00	34.12	B	N
	ATOM	2189	CA	ASP	B	377	28.034	63.625	39.770	1.00	38.00	B	C
	ATOM	2190	CB	ASP	B	377	27.284	63.106	38.534	1.00	38.71	B	C
30	ATOM	2191	CG	ASP	B	377	27.935	61.842	37.975	1.00	42.90	B	C
	ATOM	2192	OD1	ASP	B	377	28.553	61.091	38.774	1.00	43.54	B	O
	ATOM	2193	OD2	ASP	B	377	27.845	61.587	36.753	1.00	45.91	B	O
	ATOM	2194	C	ASP	B	377	28.270	65.124	39.720	1.00	41.90	B	C
35	ATOM	2195	O	ASP	B	377	28.896	65.655	38.796	1.00	42.60	B	O
	ATOM	2196	N	LYS	B	378	27.794	65.813	40.750	1.00	42.97	B	N
	ATOM	2197	CA	LYS	B	378	28.000	67.250	40.850	1.00	45.94	B	C
	ATOM	2198	CB	LYS	B	378	26.990	67.857	41.834	1.00	47.37	B	C
40	ATOM	2199	CG	LYS	B	378	26.390	69.186	41.388	1.00	49.43	B	C
	ATOM	2200	CD	LYS	B	378	25.233	68.981	40.414	1.00	53.07	B	C
	ATOM	2201	CE	LYS	B	378	25.304	69.942	39.239	1.00	52.60	B	C
	ATOM	2202	NZ	LYS	B	378	23.950	70.425	38.847	1.00	59.16	B	N
45	ATOM	2203	C	LYS	B	378	29.431	67.504	41.335	1.00	46.80	B	C
	ATOM	2204	O	LYS	B	378	29.953	68.612	41.196	1.00	43.60	B	O
	ATOM	2205	N	TYR	B	379	30.066	66.477	41.900	1.00	46.11	B	N
	ATOM	2206	CA	TYR	B	379	31.428	66.619	42.404	1.00	46.50	B	C
50	ATOM	2207	CB	TYR	B	379	31.802	65.439	43.328	1.00	51.01	B	C
	ATOM	2208	CG	TYR	B	379	31.194	65.495	44.715	1.00	56.52	B	C
	ATOM	2209	CD1	TYR	B	379	30.370	64.467	45.179	1.00	58.85	B	C
	ATOM	2210	CE1	TYR	B	379	29.786	64.528	46.455	1.00	60.43	B	C
55	ATOM	2211	CD2	TYR	B	379	31.421	66.584	45.554	1.00	58.29	B	C
	ATOM	2212	CE2	TYR	B	379	30.849	66.657	46.820	1.00	60.30	B	C
	ATOM	2213	CZ	TYR	B	379	30.035	65.629	47.266	1.00	60.35	B	C
	ATOM	2214	OH	TYR	B	379	29.500	65.717	48.529	1.00	59.90	B	O
60	ATOM	2215	C	TYR	B	379	32.448	66.722	41.279	1.00	43.55	B	C
	ATOM	2216	O	TYR	B	379	33.655	66.850	41.529	1.00	43.54	B	O
	ATOM	2217	N	ASN	B	380	31.958	66.664	40.043	1.00	39.17	B	N
	ATOM	2218	CA	ASN	B	380	32.807	66.757	38.857	1.00	33.78	B	C
65	ATOM	2219	CB	ASN	B	380	32.291	65.832	37.760	1.00	32.30	B	C
	ATOM	2220	CG	ASN	B	380	32.272	64.384	38.191	1.00	31.78	B	C
	ATOM	2221	OD1	ASN	B	380	33.065	63.969	39.027	1.00	30.04	B	O
	ATOM	2222	ND2	ASN	B	380	31.374	63.603	37.600	1.00	29.58	B	N
70	ATOM	2223	C	ASN	B	380	32.818	68.185	38.334	1.00	28.14	B	C
	ATOM	2224	O	ASN	B	380	31.874	68.614	37.678	1.00	26.95	B	O
	ATOM	2225	N	PRO	B	381	33.883	68.944	38.634	1.00	23.99	B	N
	ATOM	2226	CD	PRO	B	381	35.077	68.555	39.400	1.00	22.09	B	C
75	ATOM	2227	CA	PRO	B	381	33.961	70.326	38.157	1.00	25.37	B	C
	ATOM	2228	CB	PRO	B	381	35.367	70.778	38.551	1.00	23.43	B	C
	ATOM	2229	CG	PRO	B	381	35.788	69.844	39.633	1.00	23.35	B	C
	ATOM	2230	C	PRO	B	381	33.796	70.317	36.635	1.00	26.97	B	C
80	ATOM	2231	O	PRO	B	381	34.354	69.450	35.957	1.00	24.04	B	O
	ATOM	2232	N	VAL	B	382	33.025	71.251	36.093	1.00	27.29	B	N
	ATOM	2233	CA	VAL	B	382	32.807	71.327	34.649	1.00	28.82	B	C
	ATOM	2234	CB	VAL	B	382	34.040	71.984	33.948	1.00	29.28	B	C

	ATOM	2235	CG1	VAL	B	382	35.078	70.950	33.619	1.00	36.03	B	C
	ATOM	2236	CG2	VAL	B	382	33.610	72.708	32.692	1.00	28.22	B	C
	ATOM	2237	C	VAL	B	382	32.458	69.979	33.992	1.00	28.33	B	C
5	ATOM	2238	O	VAL	B	382	32.760	69.739	32.823	1.00	29.01	B	O
	ATOM	2239	N	GLY	B	383	31.815	69.102	34.759	1.00	29.29	B	N
	ATOM	2240	CA	GLY	B	383	31.395	67.806	34.245	1.00	27.41	B	C
	ATOM	2241	C	GLY	B	383	32.442	66.728	34.024	1.00	26.28	B	C
	ATOM	2242	O	GLY	B	383	32.102	65.616	33.624	1.00	26.26	B	O
10	ATOM	2243	N	ALA	B	384	33.706	67.037	34.288	1.00	25.45	B	N
	ATOM	2244	CA	ALA	B	384	34.777	66.067	34.084	1.00	21.33	B	C
	ATOM	2245	CB	ALA	B	384	35.948	66.736	33.394	1.00	17.89	B	C
	ATOM	2246	C	ALA	B	384	35.248	65.411	35.373	1.00	20.80	B	C
	ATOM	2247	O	ALA	B	384	35.632	66.092	36.316	1.00	20.55	B	O
15	ATOM	2248	N	SER	B	385	35.227	64.082	35.399	1.00	20.05	B	N
	ATOM	2249	CA	SER	B	385	35.662	63.338	36.567	1.00	19.54	B	C
	ATOM	2250	CB	SER	B	385	35.297	61.857	36.418	1.00	18.67	B	C
	ATOM	2251	OG	SER	B	385	36.089	61.221	35.429	1.00	23.96	B	O
	ATOM	2252	C	SER	B	385	37.166	63.487	36.752	1.00	19.49	B	C
20	ATOM	2253	O	SER	B	385	37.677	63.384	37.862	1.00	21.92	B	O
	ATOM	2254	N	GLU	B	386	37.873	63.728	35.656	1.00	20.81	B	N
	ATOM	2255	CA	GLU	B	386	39.321	63.891	35.703	1.00	20.78	B	C
	ATOM	2256	CB	GLU	B	386	39.884	64.127	34.296	1.00	21.67	B	C
	ATOM	2257	CG	GLU	B	386	39.758	62.948	33.342	1.00	23.04	B	C
25	ATOM	2258	CD	GLU	B	386	38.480	62.991	32.516	1.00	26.51	B	C
	ATOM	2259	OE1	GLU	B	386	38.275	62.081	31.680	1.00	25.10	B	O
	ATOM	2260	OE2	GLU	B	386	37.679	63.931	32.705	1.00	25.29	B	O
	ATOM	2261	C	GLU	B	386	39.664	65.085	36.580	1.00	23.01	B	C
	ATOM	2262	O	GLU	B	386	40.666	65.076	37.296	1.00	23.30	B	O
30	ATOM	2263	N	LEU	B	387	38.832	66.120	36.516	1.00	22.83	B	N
	ATOM	2264	CA	LEU	B	387	39.053	67.319	37.314	1.00	21.36	B	C
	ATOM	2265	CB	LEU	B	387	38.190	68.457	36.791	1.00	22.32	B	C
	ATOM	2266	CG	LEU	B	387	38.589	68.979	35.409	1.00	23.76	B	C
	ATOM	2267	CD1	LEU	B	387	37.732	70.177	35.056	1.00	21.87	B	C
35	ATOM	2268	CD2	LEU	B	387	40.052	69.368	35.404	1.00	23.95	B	C
	ATOM	2269	C	LEU	B	387	38.742	67.062	38.787	1.00	21.82	B	C
	ATOM	2270	O	LEU	B	387	39.380	67.622	39.673	1.00	19.37	B	O
	ATOM	2271	N	ARG	B	388	37.759	66.208	39.041	1.00	20.56	B	N
40	ATOM	2272	CA	ARG	B	388	37.394	65.864	40.404	1.00	24.41	B	C
	ATOM	2273	CB	ARG	B	388	36.128	65.004	40.413	1.00	27.86	B	C
	ATOM	2274	CG	ARG	B	388	35.920	64.211	41.699	1.00	29.92	B	C
	ATOM	2275	CD	ARG	B	388	34.450	63.958	41.912	1.00	36.60	B	C
	ATOM	2276	NE	ARG	B	388	34.188	63.216	43.147	1.00	43.69	B	N
	ATOM	2277	CZ	ARG	B	388	33.063	62.535	43.373	1.00	47.24	B	C
45	ATOM	2278	NH1	ARG	B	388	32.102	62.500	42.454	1.00	49.72	B	N
	ATOM	2279	NH2	ARG	B	388	32.895	61.895	44.523	1.00	47.71	B	N
	ATOM	2280	C	ARG	B	388	38.537	65.090	41.060	1.00	24.75	B	C
	ATOM	2281	O	ARG	B	388	38.891	65.345	42.209	1.00	25.27	B	O
50	ATOM	2282	N	ASP	B	389	39.107	64.141	40.325	1.00	22.89	B	N
	ATOM	2283	CA	ASP	B	389	40.204	63.327	40.833	1.00	22.65	B	C
	ATOM	2284	CB	ASP	B	389	40.567	62.236	39.831	1.00	23.29	B	C
	ATOM	2285	CG	ASP	B	389	39.460	61.227	39.641	1.00	31.83	B	C
	ATOM	2286	OD1	ASP	B	389	39.668	60.271	38.861	1.00	34.04	B	O
	ATOM	2287	OD2	ASP	B	389	38.383	61.386	40.264	1.00	37.24	B	O
55	ATOM	2288	C	ASP	B	389	41.445	64.157	41.079	1.00	23.10	B	C
	ATOM	2289	O	ASP	B	389	42.288	63.810	41.912	1.00	22.13	B	O
	ATOM	2290	N	LEU	B	390	41.566	65.250	40.335	1.00	22.10	B	N
	ATOM	2291	CA	LEU	B	390	42.733	66.108	40.444	1.00	18.95	B	C
	ATOM	2292	CB	LEU	B	390	42.996	66.793	39.097	1.00	19.35	B	C
60	ATOM	2293	CG	LEU	B	390	44.078	67.883	39.044	1.00	19.79	B	C
	ATOM	2294	CD1	LEU	B	390	45.443	67.289	39.342	1.00	17.14	B	C
	ATOM	2295	CD2	LEU	B	390	44.084	68.525	37.673	1.00	17.96	B	C
	ATOM	2296	C	LEU	B	390	42.642	67.153	41.540	1.00	19.78	B	C
	ATOM	2297	O	LEU	B	390	43.599	67.354	42.284	1.00	22.00	B	O
65	ATOM	2298	N	TYR	B	391	41.490	67.806	41.649	1.00	19.46	B	N
	ATOM	2299	CA	TYR	B	391	41.299	68.866	42.634	1.00	19.18	B	C
	ATOM	2300	CB	TYR	B	391	40.547	70.035	41.981	1.00	18.70	B	C
	ATOM	2301	CG	TYR	B	391	41.323	70.764	40.907	1.00	16.93	B	C
	ATOM	2302	CD1	TYR	B	391	42.301	71.702	41.241	1.00	18.07	B	C

	ATOM	2303	CE1	TYR	B	391	43.024	72.374	40.255	1.00	16.59	B	C
	ATOM	2304	CD2	TYR	B	391	41.084	70.514	39.553	1.00	17.90	B	C
	ATOM	2305	CE2	TYR	B	391	41.804	71.181	38.558	1.00	16.33	B	C
	ATOM	2306	CZ	TYR	B	391	42.771	72.106	38.918	1.00	17.61	B	C
5	ATOM	2307	OH	TYR	B	391	43.498	72.747	37.943	1.00	15.68	B	O
	ATOM	2308	C	TYR	B	391	40.572	68.496	43.934	1.00	19.42	B	C
	ATOM	2309	O	TYR	B	391	40.705	69.205	44.936	1.00	18.12	B	O
	ATOM	2310	N	LEU	B	392	39.809	67.405	43.933	1.00	17.23	B	N
	ATOM	2311	CA	LEU	B	392	39.053	67.050	45.126	1.00	17.99	B	C
10	ATOM	2312	CB	LEU	B	392	37.562	67.262	44.868	1.00	17.10	B	C
	ATOM	2313	CG	LEU	B	392	37.163	68.590	44.219	1.00	16.16	B	C
	ATOM	2314	CD1	LEU	B	392	35.711	68.533	43.796	1.00	13.15	B	C
	ATOM	2315	CD2	LEU	B	392	37.394	69.730	45.190	1.00	15.30	B	C
	ATOM	2316	C	LEU	B	392	39.263	65.657	45.687	1.00	18.70	B	C
15	ATOM	2317	O	LEU	B	392	38.374	65.115	46.343	1.00	20.06	B	O
	ATOM	2318	N	LYS	B	393	40.431	65.079	45.441	1.00	17.95	B	N
	ATOM	2319	CA	LYS	B	393	40.731	63.749	45.949	1.00	18.62	B	C
	ATOM	2320	CB	LYS	B	393	40.662	62.714	44.829	1.00	19.54	B	C
	ATOM	2321	CG	LYS	B	393	39.254	62.463	44.339	1.00	22.35	B	C
20	ATOM	2322	CD	LYS	B	393	38.972	60.989	44.206	1.00	25.59	B	C
	ATOM	2323	CE	LYS	B	393	37.660	60.749	43.482	1.00	27.31	B	C
	ATOM	2324	NZ	LYS	B	393	37.462	59.301	43.226	1.00	33.53	B	N
	ATOM	2325	C	LYS	B	393	42.110	63.752	46.574	1.00	19.79	B	C
	ATOM	2326	O	LYS	B	393	42.938	64.607	46.263	1.00	20.69	B	O
25	ATOM	2327	N	THR	B	394	42.358	62.800	47.465	1.00	21.13	B	N
	ATOM	2328	CA	THR	B	394	43.647	62.737	48.136	1.00	20.24	B	C
	ATOM	2329	CB	THR	B	394	43.480	62.296	49.626	1.00	17.10	B	C
	ATOM	2330	OG1	THR	B	394	42.940	60.974	49.694	1.00	15.51	B	O
	ATOM	2331	CG2	THR	B	394	42.544	63.243	50.350	1.00	15.19	B	C
30	ATOM	2332	C	THR	B	394	44.639	61.827	47.422	1.00	20.13	B	C
	ATOM	2333	O	THR	B	394	45.851	62.011	47.532	1.00	18.25	B	O
	ATOM	2334	N	ASP	B	395	44.126	60.857	46.676	1.00	22.68	B	N
	ATOM	2335	CA	ASP	B	395	44.993	59.937	45.958	1.00	25.94	B	C
	ATOM	2336	CB	ASP	B	395	44.622	58.487	46.288	1.00	29.96	B	C
35	ATOM	2337	CG	ASP	B	395	45.670	57.493	45.814	1.00	36.84	B	C
	ATOM	2338	OD1	ASP	B	395	46.868	57.868	45.755	1.00	39.08	B	O
	ATOM	2339	OD2	ASP	B	395	45.298	56.335	45.503	1.00	41.03	B	O
	ATOM	2340	C	ASP	B	395	44.933	60.145	44.453	1.00	25.29	B	C
	ATOM	2341	O	ASP	B	395	43.922	59.860	43.818	1.00	27.48	B	O
40	ATOM	2342	N	ASN	B	396	46.020	60.652	43.886	1.00	24.72	B	N
	ATOM	2343	CA	ASN	B	396	46.096	60.869	42.447	1.00	22.29	B	C
	ATOM	2344	CB	ASN	B	396	45.304	62.118	42.039	1.00	22.31	B	C
	ATOM	2345	CG	ASN	B	396	45.859	63.392	42.639	1.00	19.29	B	C
	ATOM	2346	OD1	ASN	B	396	45.170	64.408	42.700	1.00	21.83	B	O
45	ATOM	2347	ND2	ASN	B	396	47.104	63.348	43.086	1.00	18.09	B	N
	ATOM	2348	C	ASN	B	396	47.542	61.004	42.010	1.00	23.76	B	C
	ATOM	2349	O	ASN	B	396	48.459	60.818	42.809	1.00	23.51	B	O
	ATOM	2350	N	TYR	B	397	47.744	61.349	40.744	1.00	23.17	B	N
	ATOM	2351	CA	TYR	B	397	49.085	61.486	40.209	1.00	23.84	B	C
50	ATOM	2352	CB	TYR	B	397	49.041	62.011	38.775	1.00	23.42	B	C
	ATOM	2353	CG	TYR	B	397	50.370	61.862	38.077	1.00	26.38	B	C
	ATOM	2354	CD1	TYR	B	397	51.278	62.922	38.027	1.00	24.60	B	C
	ATOM	2355	CE1	TYR	B	397	52.523	62.776	37.427	1.00	24.72	B	C
	ATOM	2356	CD2	TYR	B	397	50.744	60.643	37.503	1.00	28.08	B	C
55	ATOM	2357	CE2	TYR	B	397	51.992	60.486	36.898	1.00	28.37	B	C
	ATOM	2358	CZ	TYR	B	397	52.873	61.556	36.865	1.00	28.68	B	C
	ATOM	2359	OH	TYR	B	397	54.103	61.404	36.265	1.00	33.24	B	O
	ATOM	2360	C	TYR	B	397	49.986	62.382	41.038	1.00	24.63	B	C
	ATOM	2361	O	TYR	B	397	51.187	62.114	41.169	1.00	24.44	B	O
60	ATOM	2362	N	ILE	B	398	49.422	63.452	41.588	1.00	25.00	B	N
	ATOM	2363	CA	ILE	B	398	50.215	64.369	42.401	1.00	24.34	B	C
	ATOM	2364	CB	ILE	B	398	49.961	65.839	42.000	1.00	22.53	B	C
	ATOM	2365	CG2	ILE	B	398	50.516	66.089	40.620	1.00	23.96	B	C
	ATOM	2366	CG1	ILE	B	398	48.468	66.147	41.989	1.00	21.55	B	C
65	ATOM	2367	CD1	ILE	B	398	48.183	67.633	41.961	1.00	18.71	B	C
	ATOM	2368	C	ILE	B	398	49.970	64.198	43.896	1.00	24.11	B	C
	ATOM	2369	O	ILE	B	398	50.219	65.109	44.683	1.00	23.12	B	O
	ATOM	2370	N	ASN	B	399	49.483	63.021	44.281	1.00	24.85	B	N

	ATOM	2371	CA	ASN	B	399	49.220	62.719	45.685	1.00	25.59	B	C
	ATOM	2372	CB	ASN	B	399	50.544	62.678	46.454	1.00	25.97	B	C
	ATOM	2373	CG	ASN	B	399	51.552	61.725	45.829	1.00	29.37	B	C
5	ATOM	2374	OD1	ASN	B	399	51.242	60.562	45.566	1.00	32.56	B	O
	ATOM	2375	ND2	ASN	B	399	52.765	62.214	45.591	1.00	27.25	B	N
	ATOM	2376	C	ASN	B	399	48.262	63.702	46.365	1.00	24.62	B	C
	ATOM	2377	O	ASN	B	399	48.543	64.199	47.451	1.00	25.79	B	O
	ATOM	2378	N	GLY	B	400	47.135	63.978	45.718	1.00	25.00	B	N
10	ATOM	2379	CA	GLY	B	400	46.148	64.883	46.280	1.00	24.48	B	C
	ATOM	2380	C	GLY	B	400	46.689	66.188	46.833	1.00	22.32	B	C
	ATOM	2381	O	GLY	B	400	46.128	66.755	47.772	1.00	23.92	B	O
	ATOM	2382	N	GLU	B	401	47.768	66.684	46.249	1.00	21.17	B	N
	ATOM	2383	CA	GLU	B	401	48.362	67.932	46.718	1.00	21.89	B	C
15	ATOM	2384	CB	GLU	B	401	49.672	68.187	45.979	1.00	21.16	B	C
	ATOM	2385	CG	GLU	B	401	50.190	69.587	46.156	1.00	21.72	B	C
	ATOM	2386	CD	GLU	B	401	51.503	69.799	45.464	1.00	22.53	B	C
	ATOM	2387	OE1	GLU	B	401	52.364	68.899	45.556	1.00	25.15	B	O
	ATOM	2388	OE2	GLU	B	401	51.669	70.864	44.832	1.00	23.90	B	O
20	ATOM	2389	C	GLU	B	401	47.449	69.150	46.560	1.00	21.85	B	C
	ATOM	2390	O	GLU	B	401	47.449	70.046	47.403	1.00	22.89	B	O
	ATOM	2391	N	TYR	B	402	46.685	69.186	45.473	1.00	22.18	B	N
	ATOM	2392	CA	TYR	B	402	45.775	70.300	45.201	1.00	21.46	B	C
	ATOM	2393	CB	TYR	B	402	45.199	70.169	43.788	1.00	23.38	B	C
25	ATOM	2394	CG	TYR	B	402	46.121	70.648	42.676	1.00	22.56	B	C
	ATOM	2395	CD1	TYR	B	402	47.386	71.167	42.957	1.00	21.63	B	C
	ATOM	2396	CE1	TYR	B	402	48.213	71.641	41.939	1.00	21.23	B	C
	ATOM	2397	CD2	TYR	B	402	45.708	70.609	41.344	1.00	19.54	B	C
	ATOM	2398	CE2	TYR	B	402	46.526	71.079	40.320	1.00	21.13	B	C
30	ATOM	2399	CZ	TYR	B	402	47.774	71.596	40.621	1.00	21.44	B	C
	ATOM	2400	OH	TYR	B	402	48.572	72.084	39.609	1.00	17.00	B	O
	ATOM	2401	C	TYR	B	402	44.630	70.369	46.213	1.00	20.80	B	C
	ATOM	2402	O	TYR	B	402	44.247	71.451	46.655	1.00	20.17	B	O
	ATOM	2403	N	PHE	B	403	44.088	69.209	46.568	1.00	18.76	B	N
35	ATOM	2404	CA	PHE	B	403	42.995	69.114	47.533	1.00	16.55	B	C
	ATOM	2405	CB	PHE	B	403	42.547	67.658	47.661	1.00	16.66	B	C
	ATOM	2406	CG	PHE	B	403	41.274	67.474	48.428	1.00	15.19	B	C
	ATOM	2407	CD1	PHE	B	403	40.306	68.465	48.448	1.00	15.07	B	C
	ATOM	2408	CD2	PHE	B	403	41.037	66.292	49.120	1.00	15.75	B	C
40	ATOM	2409	CE1	PHE	B	403	39.120	68.286	49.141	1.00	14.24	B	C
	ATOM	2410	CE2	PHE	B	403	39.855	66.102	49.816	1.00	15.36	B	C
	ATOM	2411	CZ	PHE	B	403	38.893	67.103	49.825	1.00	15.82	B	C
	ATOM	2412	C	PHE	B	403	43.489	69.621	48.883	1.00	17.01	B	C
	ATOM	2413	O	PHE	B	403	42.793	70.351	49.584	1.00	16.77	B	O
45	ATOM	2414	N	ALA	B	404	44.705	69.232	49.238	1.00	17.03	B	N
	ATOM	2415	CA	ALA	B	404	45.303	69.659	50.495	1.00	17.81	B	C
	ATOM	2416	CB	ALA	B	404	46.670	69.013	50.672	1.00	14.63	B	C
	ATOM	2417	C	ALA	B	404	45.439	71.174	50.518	1.00	19.10	B	C
	ATOM	2418	O	ALA	B	404	45.094	71.817	51.503	1.00	21.59	B	O
50	ATOM	2419	N	THR	B	405	45.935	71.746	49.426	1.00	19.77	B	N
	ATOM	2420	CA	THR	B	405	46.114	73.187	49.358	1.00	17.32	B	C
	ATOM	2421	CB	THR	B	405	46.797	73.596	48.051	1.00	17.59	B	C
	ATOM	2422	OG1	THR	B	405	47.992	72.824	47.888	1.00	17.02	B	O
	ATOM	2423	CG2	THR	B	405	47.158	75.071	48.074	1.00	7.34	B	C
55	ATOM	2424	C	THR	B	405	44.809	73.952	49.503	1.00	18.95	B	C
	ATOM	2425	O	THR	B	405	44.767	74.984	50.184	1.00	20.34	B	O
	ATOM	2426	N	ILE	B	406	43.746	73.459	48.870	1.00	19.59	B	N
	ATOM	2427	CA	ILE	B	406	42.439	74.119	48.960	1.00	19.80	B	C
	ATOM	2428	CB	ILE	B	406	41.371	73.420	48.089	1.00	20.27	B	C
60	ATOM	2429	CG2	ILE	B	406	40.022	74.090	48.286	1.00	17.42	B	C
	ATOM	2430	CG1	ILE	B	406	41.775	73.480	46.615	1.00	22.19	B	C
	ATOM	2431	CD1	ILE	B	406	40.915	72.632	45.698	1.00	22.25	B	C
	ATOM	2432	C	ILE	B	406	41.966	74.060	50.405	1.00	20.85	B	C
	ATOM	2433	O	ILE	B	406	41.590	75.076	50.993	1.00	22.19	B	O
65	ATOM	2434	N	ILE	B	407	42.003	72.856	50.969	1.00	20.14	B	N
	ATOM	2435	CA	ILE	B	407	41.581	72.618	52.343	1.00	20.89	B	C
	ATOM	2436	CB	ILE	B	407	41.766	71.137	52.729	1.00	19.37	B	C
	ATOM	2437	CG2	ILE	B	407	42.003	71.009	54.220	1.00	17.85	B	C
	ATOM	2438	CG1	ILE	B	407	40.522	70.345	52.323	1.00	17.02	B	C

	ATOM	2439	CD1	ILE	B	407	40.733	68.860	52.301	1.00	16.54	B	C
	ATOM	2440	C	ILE	B	407	42.327	73.488	53.344	1.00	20.84	B	C
	ATOM	2441	O	ILE	B	407	41.737	73.962	54.314	1.00	21.84	B	O
	ATOM	2442	N	LYS	B	408	43.619	73.697	53.121	1.00	20.51	B	N
5	ATOM	2443	CA	LYS	B	408	44.391	74.537	54.030	1.00	20.08	B	C
	ATOM	2444	CB	LYS	B	408	45.886	74.368	53.782	1.00	19.46	B	C
	ATOM	2445	CG	LYS	B	408	46.464	73.102	54.395	1.00	21.27	B	C
	ATOM	2446	CD	LYS	B	408	47.511	72.484	53.486	1.00	25.77	B	C
10	ATOM	2447	CE	LYS	B	408	48.907	72.971	53.835	1.00	25.44	B	C
	ATOM	2448	NZ	LYS	B	408	49.048	73.286	55.288	1.00	29.30	B	N
	ATOM	2449	C	LYS	B	408	43.998	75.997	53.860	1.00	20.40	B	C
	ATOM	2450	O	LYS	B	408	44.136	76.797	54.782	1.00	22.04	B	O
	ATOM	2451	N	GLU	B	409	43.494	76.343	52.681	1.00	21.16	B	N
15	ATOM	2452	CA	GLU	B	409	43.078	77.714	52.421	1.00	20.74	B	C
	ATOM	2453	CB	GLU	B	409	42.943	77.955	50.911	1.00	19.83	B	C
	ATOM	2454	CG	GLU	B	409	44.240	78.393	50.257	1.00	19.71	B	C
	ATOM	2455	CD	GLU	B	409	44.145	78.520	48.744	1.00	22.41	B	C
	ATOM	2456	OE1	GLU	B	409	43.058	78.289	48.177	1.00	21.65	B	O
20	ATOM	2457	OE2	GLU	B	409	45.174	78.855	48.115	1.00	24.96	B	O
	ATOM	2458	C	GLU	B	409	41.750	77.976	53.127	1.00	19.02	B	C
	ATOM	2459	O	GLU	B	409	41.473	79.095	53.563	1.00	19.07	B	O
	ATOM	2460	N	VAL	B	410	40.936	76.933	53.239	1.00	15.57	B	N
	ATOM	2461	CA	VAL	B	410	39.641	77.032	53.906	1.00	17.26	B	C
25	ATOM	2462	CB	VAL	B	410	38.777	75.779	53.637	1.00	15.97	B	C
	ATOM	2463	CG1	VAL	B	410	37.528	75.813	54.510	1.00	12.74	B	C
	ATOM	2464	CG2	VAL	B	410	38.412	75.704	52.156	1.00	8.70	B	C
	ATOM	2465	C	VAL	B	410	39.859	77.158	55.414	1.00	18.50	B	C
	ATOM	2466	O	VAL	B	410	39.261	78.005	56.072	1.00	18.15	B	O
30	ATOM	2467	N	GLY	B	411	40.724	76.302	55.947	1.00	19.29	B	N
	ATOM	2468	CA	GLY	B	411	41.019	76.333	57.364	1.00	20.68	B	C
	ATOM	2469	C	GLY	B	411	41.554	77.686	57.783	1.00	23.03	B	C
	ATOM	2470	O	GLY	B	411	41.234	78.182	58.862	1.00	27.14	B	O
	ATOM	2471	N	ALA	B	412	42.372	78.293	56.935	1.00	23.27	B	N
35	ATOM	2472	CA	ALA	B	412	42.932	79.600	57.246	1.00	21.90	B	C
	ATOM	2473	CB	ALA	B	412	43.987	79.975	56.217	1.00	22.05	B	C
	ATOM	2474	C	ALA	B	412	41.838	80.660	57.279	1.00	22.58	B	C
	ATOM	2475	O	ALA	B	412	41.923	81.618	58.039	1.00	22.32	B	O
	ATOM	2476	N	ASP	B	413	40.815	80.496	56.450	1.00	22.26	B	N
40	ATOM	2477	CA	ASP	B	413	39.720	81.460	56.421	1.00	24.59	B	C
	ATOM	2478	CB	ASP	B	413	38.773	81.166	55.253	1.00	26.88	B	C
	ATOM	2479	CG	ASP	B	413	39.210	81.832	53.954	1.00	27.63	B	C
	ATOM	2480	OD1	ASP	B	413	38.820	81.333	52.878	1.00	31.78	B	O
	ATOM	2481	OD2	ASP	B	413	39.939	82.845	54.001	1.00	25.09	B	O
45	ATOM	2482	C	ASP	B	413	38.947	81.378	57.736	1.00	25.66	B	C
	ATOM	2483	O	ASP	B	413	38.472	82.387	58.260	1.00	26.13	B	O
	ATOM	2484	N	LEU	B	414	38.825	80.159	58.254	1.00	24.99	B	N
	ATOM	2485	CA	LEU	B	414	38.123	79.896	59.501	1.00	24.25	B	C
	ATOM	2486	CB	LEU	B	414	38.080	78.386	59.761	1.00	22.31	B	C
50	ATOM	2487	CG	LEU	B	414	36.825	77.586	59.391	1.00	21.78	B	C
	ATOM	2488	CD1	LEU	B	414	35.954	78.365	58.438	1.00	17.71	B	C
	ATOM	2489	CD2	LEU	B	414	37.239	76.267	58.775	1.00	19.71	B	C
	ATOM	2490	C	LEU	B	414	38.834	80.596	60.655	1.00	24.00	B	C
	ATOM	2491	O	LEU	B	414	38.204	81.309	61.441	1.00	24.64	B	O
55	ATOM	2492	N	VAL	B	415	40.147	80.390	60.744	1.00	23.79	B	N
	ATOM	2493	CA	VAL	B	415	40.965	80.986	61.795	1.00	23.58	B	C
	ATOM	2494	CB	VAL	B	415	42.450	80.624	61.617	1.00	20.85	B	C
	ATOM	2495	CG1	VAL	B	415	43.306	81.472	62.540	1.00	20.03	B	C
	ATOM	2496	CG2	VAL	B	415	42.666	79.155	61.910	1.00	16.09	B	C
60	ATOM	2497	C	VAL	B	415	40.839	82.504	61.800	1.00	25.73	B	C
	ATOM	2498	O	VAL	B	415	40.990	83.147	62.840	1.00	27.46	B	O
	ATOM	2499	N	ASP	B	416	40.563	83.073	60.633	1.00	28.17	B	N
	ATOM	2500	CA	ASP	B	416	40.416	84.517	60.498	1.00	28.70	B	C
	ATOM	2501	CB	ASP	B	416	40.451	84.922	59.028	1.00	33.31	B	C
65	ATOM	2502	CG	ASP	B	416	41.843	85.250	58.550	1.00	39.34	B	C
	ATOM	2503	OD1	ASP	B	416	41.979	85.647	57.371	1.00	46.83	B	O
	ATOM	2504	OD2	ASP	B	416	42.799	85.109	59.347	1.00	41.91	B	O
	ATOM	2505	C	ASP	B	416	39.104	84.973	61.093	1.00	27.01	B	C
	ATOM	2506	O	ASP	B	416	39.053	85.977	61.796	1.00	27.76	B	O

	ATOM	2507	N	ALA	B	417	38.043	84.233	60.791	1.00	23.54	B	N
	ATOM	2508	CA	ALA	B	417	36.710	84.548	61.290	1.00	23.93	B	C
	ATOM	2509	CB	ALA	B	417	35.665	83.782	60.497	1.00	25.51	B	C
5	ATOM	2510	C	ALA	B	417	36.615	84.191	62.765	1.00	21.32	B	C
	ATOM	2511	O	ALA	B	417	35.682	84.586	63.451	1.00	21.47	B	O
	ATOM	2512	N	LYS	B	418	37.579	83.405	63.225	1.00	21.67	B	N
	ATOM	2513	CA	LYS	B	418	37.684	82.998	64.620	1.00	21.49	B	C
	ATOM	2514	CB	LYS	B	418	37.899	84.240	65.491	1.00	21.89	B	C
10	ATOM	2515	CG	LYS	B	418	38.015	83.944	66.984	1.00	21.23	B	C
	ATOM	2516	CD	LYS	B	418	38.506	85.172	67.749	1.00	25.79	B	C
	ATOM	2517	CE	LYS	B	418	38.834	84.851	69.207	1.00	27.10	B	C
	ATOM	2518	NZ	LYS	B	418	38.584	86.013	70.111	1.00	27.58	B	N
	ATOM	2519	C	LYS	B	418	36.607	82.142	65.284	1.00	20.18	B	C
15	ATOM	2520	O	LYS	B	418	36.938	81.158	65.946	1.00	22.48	B	O
	ATOM	2521	N	TYR	B	419	35.334	82.495	65.117	1.00	16.66	B	N
	ATOM	2522	CA	TYR	B	419	34.266	81.778	65.812	1.00	15.55	B	C
	ATOM	2523	CB	TYR	B	419	33.189	82.789	66.234	1.00	14.80	B	C
	ATOM	2524	CG	TYR	B	419	33.765	83.926	67.048	1.00	15.58	B	C
20	ATOM	2525	CD1	TYR	B	419	34.149	83.728	68.366	1.00	18.67	B	C
	ATOM	2526	CE1	TYR	B	419	34.759	84.740	69.107	1.00	20.53	B	C
	ATOM	2527	CD2	TYR	B	419	33.998	85.180	66.481	1.00	17.50	B	C
	ATOM	2528	CE2	TYR	B	419	34.611	86.206	67.213	1.00	18.73	B	C
	ATOM	2529	CZ	TYR	B	419	34.992	85.972	68.527	1.00	22.08	B	C
25	ATOM	2530	OH	TYR	B	419	35.634	86.943	69.263	1.00	23.18	B	O
	ATOM	2531	C	TYR	B	419	33.608	80.539	65.212	1.00	16.00	B	C
	ATOM	2532	O	TYR	B	419	32.927	79.797	65.929	1.00	16.46	B	O
	ATOM	2533	N	GLN	B	420	33.790	80.294	63.920	1.00	16.41	B	N
	ATOM	2534	CA	GLN	B	420	33.191	79.106	63.316	1.00	14.18	B	C
30	ATOM	2535	CB	GLN	B	420	32.564	79.447	61.970	1.00	15.20	B	C
	ATOM	2536	CG	GLN	B	420	31.229	80.158	62.085	1.00	21.65	B	C
	ATOM	2537	CD	GLN	B	420	31.380	81.578	62.591	1.00	24.54	B	C
	ATOM	2538	OE1	GLN	B	420	30.860	81.933	63.649	1.00	28.23	B	O
	ATOM	2539	NE2	GLN	B	420	32.100	82.398	61.837	1.00	25.10	B	N
35	ATOM	2540	C	GLN	B	420	34.221	77.994	63.143	1.00	13.10	B	C
	ATOM	2541	O	GLN	B	420	35.364	78.243	62.764	1.00	10.95	B	O
	ATOM	2542	N	HIS	B	421	33.803	76.770	63.443	1.00	10.38	B	N
	ATOM	2543	CA	HIS	B	421	34.656	75.597	63.334	1.00	10.35	B	C
	ATOM	2544	CB	HIS	B	421	34.865	74.962	64.720	1.00	8.46	B	C
40	ATOM	2545	CG	HIS	B	421	35.595	75.839	65.687	1.00	7.79	B	C
	ATOM	2546	CD2	HIS	B	421	35.215	76.972	66.326	1.00	8.07	B	C
	ATOM	2547	ND1	HIS	B	421	36.890	75.592	66.090	1.00	9.97	B	N
	ATOM	2548	CE1	HIS	B	421	37.276	76.531	66.933	1.00	5.63	B	C
	ATOM	2549	NE2	HIS	B	421	36.279	77.379	67.094	1.00	8.76	B	N
45	ATOM	2550	C	HIS	B	421	33.954	74.603	62.412	1.00	11.99	B	C
	ATOM	2551	O	HIS	B	421	32.779	74.790	62.083	1.00	8.19	B	O
	ATOM	2552	N	ALA	B	422	34.657	73.539	62.015	1.00	12.17	B	N
	ATOM	2553	CA	ALA	B	422	34.075	72.537	61.127	1.00	10.35	B	C
	ATOM	2554	CB	ALA	B	422	34.311	72.936	59.685	1.00	9.74	B	C
50	ATOM	2555	C	ALA	B	422	34.642	71.148	61.379	1.00	10.86	B	C
	ATOM	2556	O	ALA	B	422	35.785	71.008	61.800	1.00	15.70	B	O
	ATOM	2557	N	GLU	B	423	33.838	70.122	61.116	1.00	11.49	B	N
	ATOM	2558	CA	GLU	B	423	34.251	68.729	61.303	1.00	14.32	B	C
	ATOM	2559	CB	GLU	B	423	33.303	68.024	62.280	1.00	12.55	B	C
55	ATOM	2560	CG	GLU	B	423	33.196	68.651	63.653	1.00	12.66	B	C
	ATOM	2561	CD	GLU	B	423	32.418	67.769	64.609	1.00	16.31	B	C
	ATOM	2562	OE1	GLU	B	423	33.034	66.911	65.272	1.00	19.02	B	O
	ATOM	2563	OE2	GLU	B	423	31.184	67.923	64.694	1.00	18.10	B	O
	ATOM	2564	C	GLU	B	423	34.237	67.970	59.963	1.00	13.62	B	C
60	ATOM	2565	O	GLU	B	423	33.456	67.030	59.772	1.00	11.35	B	O
	ATOM	2566	N	PRO	B	424	35.115	68.362	59.026	1.00	13.75	B	N
	ATOM	2567	CD	PRO	B	424	36.107	69.436	59.177	1.00	13.57	B	C
	ATOM	2568	CA	PRO	B	424	35.204	67.732	57.705	1.00	13.83	B	C
	ATOM	2569	CB	PRO	B	424	36.300	68.532	57.007	1.00	11.58	B	C
65	ATOM	2570	CG	PRO	B	424	37.093	69.126	58.106	1.00	12.45	B	C
	ATOM	2571	C	PRO	B	424	35.502	66.233	57.717	1.00	13.70	B	C
	ATOM	2572	O	PRO	B	424	36.388	65.764	58.421	1.00	13.73	B	O
	ATOM	2573	N	ARG	B	425	34.750	65.499	56.905	1.00	15.58	B	N
	ATOM	2574	CA	ARG	B	425	34.867	64.051	56.775	1.00	14.01	B	C

	ATOM	2575	CB	ARG	B	425	33.465	63.453	56.584	1.00	12.03	B	C
	ATOM	2576	CG	ARG	B	425	32.941	62.670	57.775	1.00	15.19	B	C
	ATOM	2577	CD	ARG	B	425	31.586	63.163	58.261	1.00	14.34	B	C
	ATOM	2578	NE	ARG	B	425	31.687	64.432	58.973	1.00	13.76	B	N
5	ATOM	2579	CZ	ARG	B	425	30.878	64.812	59.961	1.00	15.04	B	C
	ATOM	2580	NH1	ARG	B	425	29.889	64.025	60.382	1.00	6.56	B	N
	ATOM	2581	NH2	ARG	B	425	31.049	66.006	60.517	1.00	14.39	B	N
	ATOM	2582	C	ARG	B	425	35.758	63.669	55.585	1.00	15.13	B	C
10	ATOM	2583	O	ARG	B	425	35.568	64.176	54.481	1.00	14.42	B	O
	ATOM	2584	N	LEU	B	426	36.732	62.788	55.821	1.00	15.65	B	N
	ATOM	2585	CA	LEU	B	426	37.646	62.310	54.777	1.00	14.93	B	C
	ATOM	2586	CB	LEU	B	426	39.095	62.311	55.276	1.00	15.19	B	C
	ATOM	2587	CG	LEU	B	426	39.781	63.668	55.470	1.00	17.79	B	C
	ATOM	2588	CD1	LEU	B	426	40.982	63.514	56.403	1.00	12.63	B	C
15	ATOM	2589	CD2	LEU	B	426	40.217	64.225	54.121	1.00	13.52	B	C
	ATOM	2590	C	LEU	B	426	37.232	60.882	54.434	1.00	15.18	B	C
	ATOM	2591	O	LEU	B	426	36.777	60.144	55.308	1.00	17.86	B	O
	ATOM	2592	N	SER	B	427	37.406	60.481	53.177	1.00	15.64	B	N
	ATOM	2593	CA	SER	B	427	36.997	59.142	52.747	1.00	18.08	B	C
20	ATOM	2594	CB	SER	B	427	36.482	59.171	51.303	1.00	15.33	B	C
	ATOM	2595	OG	SER	B	427	35.470	60.137	51.130	1.00	18.75	B	O
	ATOM	2596	C	SER	B	427	38.036	58.034	52.831	1.00	16.87	B	C
	ATOM	2597	O	SER	B	427	39.208	58.236	52.528	1.00	19.07	B	O
	ATOM	2598	N	ILE	B	428	37.568	56.861	53.239	1.00	14.77	B	N
25	ATOM	2599	CA	ILE	B	428	38.362	55.642	53.325	1.00	15.70	B	C
	ATOM	2600	CB	ILE	B	428	38.756	55.301	54.779	1.00	15.81	B	C
	ATOM	2601	CG2	ILE	B	428	39.031	53.806	54.918	1.00	11.18	B	C
	ATOM	2602	CG1	ILE	B	428	39.992	56.117	55.183	1.00	12.64	B	C
	ATOM	2603	CD1	ILE	B	428	41.306	55.616	54.612	1.00	9.68	B	C
30	ATOM	2604	C	ILE	B	428	37.313	54.669	52.806	1.00	17.44	B	C
	ATOM	2605	O	ILE	B	428	36.326	54.395	53.483	1.00	15.69	B	O
	ATOM	2606	N	TYR	B	429	37.515	54.177	51.587	1.00	20.08	B	N
	ATOM	2607	CA	TYR	B	429	36.540	53.302	50.936	1.00	20.97	B	C
	ATOM	2608	CB	TYR	B	429	36.686	53.423	49.413	1.00	17.90	B	C
35	ATOM	2609	CG	TYR	B	429	36.631	54.848	48.886	1.00	16.16	B	C
	ATOM	2610	CD1	TYR	B	429	37.790	55.618	48.763	1.00	16.37	B	C
	ATOM	2611	CE1	TYR	B	429	37.742	56.923	48.262	1.00	12.41	B	C
	ATOM	2612	CD2	TYR	B	429	35.420	55.421	48.495	1.00	13.24	B	C
	ATOM	2613	CE2	TYR	B	429	35.361	56.711	47.998	1.00	8.44	B	C
40	ATOM	2614	CZ	TYR	B	429	36.519	57.459	47.883	1.00	16.40	B	C
	ATOM	2615	OH	TYR	B	429	36.445	58.750	47.396	1.00	22.91	B	O
	ATOM	2616	C	TYR	B	429	36.529	51.831	51.318	1.00	21.44	B	C
	ATOM	2617	O	TYR	B	429	35.475	51.198	51.304	1.00	21.98	B	O
	ATOM	2618	N	GLY	B	430	37.685	51.283	51.666	1.00	21.24	B	N
45	ATOM	2619	CA	GLY	B	430	37.725	49.872	52.000	1.00	21.28	B	C
	ATOM	2620	C	GLY	B	430	37.941	49.089	50.715	1.00	22.64	B	C
	ATOM	2621	O	GLY	B	430	37.699	47.887	50.649	1.00	20.88	B	O
	ATOM	2622	N	ARG	B	431	38.404	49.795	49.686	1.00	23.65	B	N
	ATOM	2623	CA	ARG	B	431	38.676	49.204	48.382	1.00	23.84	B	C
50	ATOM	2624	CB	ARG	B	431	38.613	50.292	47.305	1.00	24.83	B	C
	ATOM	2625	CG	ARG	B	431	39.035	49.844	45.919	1.00	28.60	B	C
	ATOM	2626	CD	ARG	B	431	39.480	51.026	45.072	1.00	28.80	B	C
	ATOM	2627	NE	ARG	B	431	40.643	51.714	45.636	1.00	31.07	B	N
	ATOM	2628	CZ	ARG	B	431	40.643	52.990	46.017	1.00	30.76	B	C
55	ATOM	2629	NH1	ARG	B	431	39.540	53.717	45.897	1.00	34.22	B	N
	ATOM	2630	NH2	ARG	B	431	41.745	53.548	46.501	1.00	28.15	B	N
	ATOM	2631	C	ARG	B	431	40.052	48.555	48.390	1.00	22.44	B	C
	ATOM	2632	O	ARG	B	431	40.262	47.518	47.771	1.00	19.86	B	O
	ATOM	2633	N	SER	B	432	40.984	49.173	49.110	1.00	26.45	B	N
60	ATOM	2634	CA	SER	B	432	42.357	48.677	49.209	1.00	29.49	B	C
	ATOM	2635	CB	SER	B	432	43.261	49.433	48.228	1.00	28.93	B	C
	ATOM	2636	OG	SER	B	432	44.626	49.217	48.528	1.00	28.56	B	O
	ATOM	2637	C	SER	B	432	42.889	48.842	50.635	1.00	31.19	B	C
	ATOM	2638	O	SER	B	432	42.496	49.764	51.352	1.00	32.08	B	O
65	ATOM	2639	N	PRO	B	433	43.809	47.959	51.059	1.00	32.97	B	N
	ATOM	2640	CD	PRO	B	433	44.376	46.841	50.280	1.00	32.45	B	C
	ATOM	2641	CA	PRO	B	433	44.372	48.032	52.415	1.00	31.04	B	C
	ATOM	2642	CB	PRO	B	433	44.922	46.628	52.653	1.00	28.56	B	C

	ATOM	2643	CG	PRO	B	433	45.248	46.113	51.284	1.00	30.49	B	C
	ATOM	2644	C	PRO	B	433	45.432	49.113	52.629	1.00	30.49	B	C
	ATOM	2645	O	PRO	B	433	45.792	49.417	53.765	1.00	31.65	B	O
5	ATOM	2646	N	ASP	B	434	45.929	49.701	51.549	1.00	29.58	B	N
	ATOM	2647	CA	ASP	B	434	46.944	50.740	51.683	1.00	29.41	B	C
	ATOM	2648	CB	ASP	B	434	47.970	50.631	50.542	1.00	34.93	B	C
	ATOM	2649	CG	ASP	B	434	47.425	51.113	49.196	1.00	43.54	B	C
	ATOM	2650	OD1	ASP	B	434	46.194	51.050	48.976	1.00	48.25	B	O
10	ATOM	2651	OD2	ASP	B	434	48.236	51.552	48.347	1.00	45.56	B	O
	ATOM	2652	C	ASP	B	434	46.354	52.154	51.739	1.00	26.13	B	C
	ATOM	2653	O	ASP	B	434	47.094	53.143	51.730	1.00	25.98	B	O
	ATOM	2654	N	GLU	B	435	45.028	52.248	51.826	1.00	20.35	B	N
	ATOM	2655	CA	GLU	B	435	44.358	53.546	51.869	1.00	19.52	B	C
15	ATOM	2656	CB	GLU	B	435	42.842	53.356	51.809	1.00	17.59	B	C
	ATOM	2657	CG	GLU	B	435	42.333	53.053	50.411	1.00	15.30	B	C
	ATOM	2658	CD	GLU	B	435	40.830	52.906	50.347	1.00	15.49	B	C
	ATOM	2659	OE1	GLU	B	435	40.353	51.789	50.059	1.00	17.12	B	O
	ATOM	2660	OE2	GLU	B	435	40.119	53.906	50.577	1.00	17.74	B	O
20	ATOM	2661	C	GLU	B	435	44.720	54.384	53.092	1.00	21.05	B	C
	ATOM	2662	O	GLU	B	435	44.888	55.602	53.003	1.00	22.18	B	O
	ATOM	2663	N	TRP	B	436	44.843	53.727	54.237	1.00	23.57	B	N
	ATOM	2664	CA	TRP	B	436	45.187	54.414	55.476	1.00	19.37	B	C
	ATOM	2665	CB	TRP	B	436	45.036	53.450	56.658	1.00	20.01	B	C
25	ATOM	2666	CG	TRP	B	436	43.604	53.252	57.102	1.00	14.07	B	C
	ATOM	2667	CD2	TRP	B	436	42.826	54.145	57.910	1.00	12.48	B	C
	ATOM	2668	CE2	TRP	B	436	41.564	53.539	58.108	1.00	14.85	B	C
	ATOM	2669	CE3	TRP	B	436	43.074	55.398	58.487	1.00	12.36	B	C
	ATOM	2670	CD1	TRP	B	436	42.806	52.173	56.847	1.00	14.22	B	C
30	ATOM	2671	NE1	TRP	B	436	41.575	52.337	57.450	1.00	13.04	B	N
	ATOM	2672	CZ2	TRP	B	436	40.554	54.145	58.864	1.00	13.52	B	C
	ATOM	2673	CZ3	TRP	B	436	42.069	56.000	59.241	1.00	11.84	B	C
	ATOM	2674	CH2	TRP	B	436	40.827	55.372	59.420	1.00	11.92	B	C
	ATOM	2675	C	TRP	B	436	46.611	54.948	55.406	1.00	19.91	B	C
35	ATOM	2676	O	TRP	B	436	46.888	56.063	55.850	1.00	20.55	B	O
	ATOM	2677	N	SER	B	437	47.514	54.151	54.842	1.00	20.89	B	N
	ATOM	2678	CA	SER	B	437	48.905	54.559	54.719	1.00	20.50	B	C
	ATOM	2679	CB	SER	B	437	49.745	53.419	54.155	1.00	21.79	B	C
	ATOM	2680	OG	SER	B	437	50.939	53.932	53.587	1.00	29.30	B	O
40	ATOM	2681	C	SER	B	437	49.034	55.769	53.807	1.00	19.19	B	C
	ATOM	2682	O	SER	B	437	49.859	56.651	54.041	1.00	21.36	B	O
	ATOM	2683	N	LYS	B	438	48.219	55.808	52.759	1.00	19.39	B	N
	ATOM	2684	CA	LYS	B	438	48.255	56.921	51.817	1.00	20.17	B	C
	ATOM	2685	CB	LYS	B	438	47.503	56.556	50.538	1.00	23.04	B	C
45	ATOM	2686	CG	LYS	B	438	48.004	55.302	49.846	1.00	26.33	B	C
	ATOM	2687	CD	LYS	B	438	48.222	55.555	48.364	1.00	29.03	B	C
	ATOM	2688	CE	LYS	B	438	47.871	54.331	47.529	1.00	30.05	B	C
	ATOM	2689	NZ	LYS	B	438	48.147	54.563	46.085	1.00	30.92	B	N
	ATOM	2690	C	LYS	B	438	47.630	58.173	52.425	1.00	20.75	B	C
50	ATOM	2691	O	LYS	B	438	48.183	59.274	52.325	1.00	20.52	B	O
	ATOM	2692	N	LEU	B	439	46.477	58.008	53.066	1.00	21.29	B	N
	ATOM	2693	CA	LEU	B	439	45.801	59.147	53.675	1.00	18.45	B	C
	ATOM	2694	CB	LEU	B	439	44.404	58.743	54.144	1.00	14.38	B	C
	ATOM	2695	CG	LEU	B	439	43.449	59.876	54.532	1.00	14.91	B	C
55	ATOM	2696	CD1	LEU	B	439	43.430	60.975	53.474	1.00	11.67	B	C
	ATOM	2697	CD2	LEU	B	439	42.061	59.284	54.718	1.00	12.30	B	C
	ATOM	2698	C	LEU	B	439	46.604	59.726	54.834	1.00	19.31	B	C
	ATOM	2699	O	LEU	B	439	46.737	60.942	54.944	1.00	22.75	B	O
60	ATOM	2700	N	SER	B	440	47.149	58.873	55.696	1.00	17.42	B	N
	ATOM	2701	CA	SER	B	440	47.934	59.381	56.814	1.00	19.09	B	C
	ATOM	2702	CB	SER	B	440	48.479	58.233	57.671	1.00	19.74	B	C
	ATOM	2703	OG	SER	B	440	49.276	57.342	56.915	1.00	25.20	B	O
	ATOM	2704	C	SER	B	440	49.080	60.221	56.273	1.00	20.04	B	C
	ATOM	2705	O	SER	B	440	49.329	61.328	56.754	1.00	21.74	B	O
65	ATOM	2706	N	SER	B	441	49.762	59.707	55.255	1.00	22.48	B	N
	ATOM	2707	CA	SER	B	441	50.891	60.421	54.648	1.00	22.41	B	C
	ATOM	2708	CB	SER	B	441	51.575	59.537	53.600	1.00	23.34	B	C
	ATOM	2709	OG	SER	B	441	51.861	58.249	54.117	1.00	25.11	B	O
	ATOM	2710	C	SER	B	441	50.453	61.730	53.997	1.00	20.99	B	C

	ATOM	2711	O	SER	B	441	51.172	62.732	54.051	1.00	21.21	B	O
	ATOM	2712	N	TRP	B	442	49.275	61.723	53.381	1.00	19.84	B	N
	ATOM	2713	CA	TRP	B	442	48.757	62.922	52.728	1.00	19.98	B	C
	ATOM	2714	CB	TRP	B	442	47.453	62.587	51.988	1.00	18.06	B	C
5	ATOM	2715	CG	TRP	B	442	46.690	63.781	51.477	1.00	20.17	B	C
	ATOM	2716	CD2	TRP	B	442	45.588	64.443	52.120	1.00	22.97	B	C
	ATOM	2717	CE2	TRP	B	442	45.179	65.501	51.271	1.00	21.20	B	C
	ATOM	2718	CE3	TRP	B	442	44.905	64.246	53.329	1.00	20.64	B	C
	ATOM	2719	CD1	TRP	B	442	46.897	64.446	50.301	1.00	20.84	B	C
10	ATOM	2720	NE1	TRP	B	442	45.994	65.481	50.171	1.00	20.10	B	N
	ATOM	2721	CZ2	TRP	B	442	44.121	66.359	51.596	1.00	19.60	B	C
	ATOM	2722	CZ3	TRP	B	442	43.852	65.101	53.647	1.00	19.43	B	C
	ATOM	2723	CH2	TRP	B	442	43.473	66.144	52.783	1.00	16.18	B	C
	ATOM	2724	C	TRP	B	442	48.517	64.008	53.781	1.00	21.22	B	C
15	ATOM	2725	O	TRP	B	442	48.883	65.170	53.593	1.00	21.26	B	O
	ATOM	2726	N	PHE	B	443	47.916	63.605	54.896	1.00	20.38	B	N
	ATOM	2727	CA	PHE	B	443	47.591	64.505	55.997	1.00	21.03	B	C
	ATOM	2728	CB	PHE	B	443	46.695	63.759	56.993	1.00	22.69	B	C
	ATOM	2729	CG	PHE	B	443	46.066	64.640	58.033	1.00	23.79	B	C
20	ATOM	2730	CD1	PHE	B	443	46.780	65.032	59.157	1.00	25.48	B	C
	ATOM	2731	CD2	PHE	B	443	44.751	65.063	57.896	1.00	25.56	B	C
	ATOM	2732	CE1	PHE	B	443	46.191	65.836	60.132	1.00	26.66	B	C
	ATOM	2733	CE2	PHE	B	443	44.153	65.866	58.865	1.00	26.16	B	C
	ATOM	2734	CZ	PHE	B	443	44.875	66.252	59.984	1.00	24.10	B	C
25	ATOM	2735	C	PHE	B	443	48.821	65.060	56.719	1.00	21.44	B	C
	ATOM	2736	O	PHE	B	443	48.916	66.262	56.969	1.00	19.50	B	O
	ATOM	2737	N	VAL	B	444	49.755	64.178	57.065	1.00	20.67	B	N
	ATOM	2738	CA	VAL	B	444	50.965	64.584	57.768	1.00	20.64	B	C
	ATOM	2739	CB	VAL	B	444	51.729	63.354	58.292	1.00	23.02	B	C
30	ATOM	2740	CG1	VAL	B	444	52.939	63.788	59.093	1.00	20.35	B	C
	ATOM	2741	CG2	VAL	B	444	50.809	62.499	59.143	1.00	25.45	B	C
	ATOM	2742	C	VAL	B	444	51.906	65.395	56.885	1.00	23.99	B	C
	ATOM	2743	O	VAL	B	444	52.336	66.488	57.253	1.00	23.62	B	O
	ATOM	2744	N	ARG	B	445	52.222	64.854	55.715	1.00	26.32	B	N
35	ATOM	2745	CA	ARG	B	445	53.132	65.517	54.794	1.00	29.69	B	C
	ATOM	2746	CB	ARG	B	445	53.367	64.637	53.568	1.00	33.19	B	C
	ATOM	2747	CG	ARG	B	445	54.576	63.738	53.695	1.00	40.65	B	C
	ATOM	2748	CD	ARG	B	445	54.372	62.452	52.930	1.00	42.99	B	C
	ATOM	2749	NE	ARG	B	445	54.913	61.308	53.654	1.00	47.65	B	N
40	ATOM	2750	CZ	ARG	B	445	55.448	60.244	53.066	1.00	49.91	B	C
	ATOM	2751	NH1	ARG	B	445	55.514	60.180	51.740	1.00	50.52	B	N
	ATOM	2752	NH2	ARG	B	445	55.915	59.245	53.802	1.00	49.94	B	N
	ATOM	2753	C	ARG	B	445	52.655	66.886	54.339	1.00	29.78	B	C
	ATOM	2754	O	ARG	B	445	53.467	67.773	54.062	1.00	30.09	B	O
45	ATOM	2755	N	ASN	B	446	51.343	67.061	54.247	1.00	28.35	B	N
	ATOM	2756	CA	ASN	B	446	50.802	68.339	53.807	1.00	26.64	B	C
	ATOM	2757	CB	ASN	B	446	49.533	68.113	52.988	1.00	25.05	B	C
	ATOM	2758	CG	ASN	B	446	49.834	67.709	51.552	1.00	24.89	B	C
	ATOM	2759	OD1	ASN	B	446	49.746	66.535	51.194	1.00	25.72	B	O
50	ATOM	2760	ND2	ASN	B	446	50.190	68.685	50.722	1.00	24.44	B	N
	ATOM	2761	C	ASN	B	446	50.525	69.256	54.994	1.00	26.12	B	C
	ATOM	2762	O	ASN	B	446	50.089	70.394	54.823	1.00	24.63	B	O
	ATOM	2763	N	ARG	B	447	50.799	68.754	56.195	1.00	25.96	B	N
	ATOM	2764	CA	ARG	B	447	50.599	69.512	57.428	1.00	27.82	B	C
55	ATOM	2765	CB	ARG	B	447	51.614	70.656	57.528	1.00	29.71	B	C
	ATOM	2766	CG	ARG	B	447	53.001	70.307	57.019	1.00	36.31	B	C
	ATOM	2767	CD	ARG	B	447	53.931	69.916	58.158	1.00	39.85	B	C
	ATOM	2768	NE	ARG	B	447	54.015	70.969	59.165	1.00	43.60	B	N
	ATOM	2769	CZ	ARG	B	447	54.429	70.779	60.414	1.00	45.43	B	C
60	ATOM	2770	NH1	ARG	B	447	54.803	69.572	60.820	1.00	45.27	B	N
	ATOM	2771	NH2	ARG	B	447	54.463	71.798	61.263	1.00	48.38	B	N
	ATOM	2772	C	ARG	B	447	49.198	70.086	57.527	1.00	26.88	B	C
	ATOM	2773	O	ARG	B	447	49.027	71.273	57.795	1.00	27.12	B	O
	ATOM	2774	N	ILE	B	448	48.198	69.242	57.309	1.00	26.68	B	N
65	ATOM	2775	CA	ILE	B	448	46.818	69.686	57.381	1.00	28.90	B	C
	ATOM	2776	CB	ILE	B	448	45.884	68.758	56.571	1.00	28.10	B	C
	ATOM	2777	CG2	ILE	B	448	44.429	69.033	56.923	1.00	27.61	B	C
	ATOM	2778	CG1	ILE	B	448	46.094	68.988	55.075	1.00	24.91	B	C

	ATOM	2779	CD1	ILE	B	448	46.245	67.723	54.308	1.00	27.49	B	C
	ATOM	2780	C	ILE	B	448	46.394	69.686	58.838	1.00	29.12	B	C
	ATOM	2781	O	ILE	B	448	46.138	68.641	59.422	1.00	32.75	B	O
5	ATOM	2782	N	TYR	B	449	46.350	70.866	59.432	1.00	28.02	B	N
	ATOM	2783	CA	TYR	B	449	45.950	71.001	60.821	1.00	27.17	B	C
	ATOM	2784	CB	TYR	B	449	47.098	70.635	61.776	1.00	28.30	B	C
	ATOM	2785	CG	TYR	B	449	46.873	71.172	63.176	1.00	30.63	B	C
	ATOM	2786	CD1	TYR	B	449	46.081	70.477	64.093	1.00	30.15	B	C
10	ATOM	2787	CE1	TYR	B	449	45.770	71.020	65.336	1.00	27.25	B	C
	ATOM	2788	CD2	TYR	B	449	47.360	72.424	63.550	1.00	31.70	B	C
	ATOM	2789	CE2	TYR	B	449	47.053	72.975	64.794	1.00	31.81	B	C
	ATOM	2790	CZ	TYR	B	449	46.254	72.270	65.677	1.00	31.46	B	C
	ATOM	2791	OH	TYR	B	449	45.917	72.833	66.888	1.00	33.67	B	O
15	ATOM	2792	C	TYR	B	449	45.565	72.450	61.026	1.00	26.39	B	C
	ATOM	2793	O	TYR	B	449	46.383	73.348	60.858	1.00	26.42	B	O
	ATOM	2794	N	SER	B	450	44.308	72.676	61.371	1.00	24.68	B	N
	ATOM	2795	CA	SER	B	450	43.824	74.023	61.595	1.00	22.22	B	C
	ATOM	2796	CB	SER	B	450	42.736	74.372	60.569	1.00	19.15	B	C
20	ATOM	2797	OG	SER	B	450	42.021	75.544	60.933	1.00	16.69	B	O
	ATOM	2798	C	SER	B	450	43.256	74.024	63.003	1.00	23.42	B	C
	ATOM	2799	O	SER	B	450	42.672	73.032	63.449	1.00	25.41	B	O
	ATOM	2800	N	SER	B	451	43.437	75.126	63.713	1.00	22.85	B	N
	ATOM	2801	CA	SER	B	451	42.928	75.206	65.067	1.00	25.20	B	C
25	ATOM	2802	CB	SER	B	451	43.521	76.414	65.776	1.00	23.53	B	C
	ATOM	2803	OG	SER	B	451	43.099	77.593	65.128	1.00	27.10	B	O
	ATOM	2804	C	SER	B	451	41.407	75.303	65.054	1.00	23.53	B	C
	ATOM	2805	O	SER	B	451	40.772	75.254	66.107	1.00	26.09	B	O
	ATOM	2806	N	ASN	B	452	40.828	75.432	63.862	1.00	21.07	B	N
30	ATOM	2807	CA	ASN	B	452	39.377	75.529	63.705	1.00	17.44	B	C
	ATOM	2808	CB	ASN	B	452	39.009	76.832	63.014	1.00	17.03	B	C
	ATOM	2809	CG	ASN	B	452	39.046	78.003	63.948	1.00	18.87	B	C
	ATOM	2810	OD1	ASN	B	452	40.113	78.414	64.394	1.00	22.52	B	O
	ATOM	2811	ND2	ASN	B	452	37.881	78.558	64.255	1.00	17.45	B	N
35	ATOM	2812	C	ASN	B	452	38.751	74.372	62.922	1.00	15.31	B	C
	ATOM	2813	O	ASN	B	452	37.623	74.490	62.443	1.00	11.38	B	O
	ATOM	2814	N	MET	B	453	39.481	73.267	62.794	1.00	11.52	B	N
	ATOM	2815	CA	MET	B	453	38.982	72.102	62.085	1.00	11.25	B	C
	ATOM	2816	CB	MET	B	453	39.583	72.040	60.679	1.00	13.09	B	C
40	ATOM	2817	CG	MET	B	453	38.884	72.885	59.639	1.00	16.40	B	C
	ATOM	2818	SD	MET	B	453	39.605	72.680	57.990	1.00	21.99	B	S
	ATOM	2819	CE	MET	B	453	38.253	73.259	56.949	1.00	16.92	B	C
	ATOM	2820	C	MET	B	453	39.371	70.829	62.829	1.00	13.71	B	C
	ATOM	2821	O	MET	B	453	40.491	70.727	63.325	1.00	14.49	B	O
45	ATOM	2822	N	THR	B	454	38.438	69.879	62.931	1.00	12.99	B	N
	ATOM	2823	CA	THR	B	454	38.705	68.585	63.554	1.00	11.96	B	C
	ATOM	2824	CB	THR	B	454	37.924	68.348	64.885	1.00	11.94	B	C
	ATOM	2825	OG1	THR	B	454	36.592	68.862	64.791	1.00	17.85	B	O
	ATOM	2826	CG2	THR	B	454	38.641	69.035	66.030	1.00	6.82	B	C
50	ATOM	2827	C	THR	B	454	38.260	67.606	62.480	1.00	14.25	B	C
	ATOM	2828	O	THR	B	454	37.414	67.942	61.656	1.00	16.06	B	O
	ATOM	2829	N	TRP	B	455	38.813	66.399	62.490	1.00	15.95	B	N
	ATOM	2830	CA	TRP	B	455	38.529	65.436	61.437	1.00	15.83	B	C
	ATOM	2831	CB	TRP	B	455	39.834	65.166	60.679	1.00	16.25	B	C
55	ATOM	2832	CG	TRP	B	455	40.462	66.417	60.149	1.00	13.49	B	C
	ATOM	2833	CD2	TRP	B	455	40.290	66.965	58.841	1.00	16.62	B	C
	ATOM	2834	CE2	TRP	B	455	41.014	68.178	58.795	1.00	16.37	B	C
	ATOM	2835	CE3	TRP	B	455	39.590	66.550	57.699	1.00	17.17	B	C
	ATOM	2836	CD1	TRP	B	455	41.264	67.287	60.826	1.00	12.32	B	C
60	ATOM	2837	NE1	TRP	B	455	41.603	68.351	60.020	1.00	11.42	B	N
	ATOM	2838	CZ2	TRP	B	455	41.062	68.978	57.652	1.00	16.61	B	C
	ATOM	2839	CZ3	TRP	B	455	39.637	67.348	56.563	1.00	20.12	B	C
	ATOM	2840	CH2	TRP	B	455	40.368	68.549	56.550	1.00	17.00	B	C
	ATOM	2841	C	TRP	B	455	37.881	64.106	61.787	1.00	17.65	B	C
65	ATOM	2842	O	TRP	B	455	38.039	63.591	62.892	1.00	18.53	B	O
	ATOM	2843	N	MET	B	456	37.168	63.556	60.803	1.00	15.39	B	N
	ATOM	2844	CA	MET	B	456	36.488	62.273	60.915	1.00	15.64	B	C
	ATOM	2845	CB	MET	B	456	34.989	62.476	61.118	1.00	16.76	B	C
	ATOM	2846	CG	MET	B	456	34.628	63.281	62.343	1.00	14.55	B	C

	ATOM	2847	SD	MET	B	456	32.849	63.477	62.516	1.00	16.21	B	S
	ATOM	2848	CE	MET	B	456	32.262	61.831	62.126	1.00	16.88	B	C
	ATOM	2849	C	MET	B	456	36.698	61.493	59.623	1.00	16.45	B	C
	ATOM	2850	O	MET	B	456	37.148	62.046	58.623	1.00	16.10	B	O
5	ATOM	2851	N	ILE	B	457	36.370	60.205	59.646	1.00	18.30	B	N
	ATOM	2852	CA	ILE	B	457	36.501	59.368	58.461	1.00	16.52	B	C
	ATOM	2853	CB	ILE	B	457	37.466	58.185	58.698	1.00	16.80	B	C
	ATOM	2854	CG2	ILE	B	457	37.080	56.995	57.832	1.00	12.48	B	C
	ATOM	2855	CG1	ILE	B	457	38.882	58.596	58.306	1.00	17.07	B	C
10	ATOM	2856	CD1	ILE	B	457	39.825	58.620	59.446	1.00	18.44	B	C
	ATOM	2857	C	ILE	B	457	35.133	58.831	58.074	1.00	16.13	B	C
	ATOM	2858	O	ILE	B	457	34.340	58.438	58.930	1.00	16.42	B	O
	ATOM	2859	N	GLN	B	458	34.852	58.830	56.777	1.00	17.49	B	N
	ATOM	2860	CA	GLN	B	458	33.576	58.336	56.275	1.00	15.88	B	C
15	ATOM	2861	CB	GLN	B	458	32.839	59.439	55.522	1.00	15.22	B	C
	ATOM	2862	CG	GLN	B	458	33.642	60.018	54.367	1.00	19.36	B	C
	ATOM	2863	CD	GLN	B	458	32.888	61.092	53.584	1.00	23.83	B	C
	ATOM	2864	OE1	GLN	B	458	31.960	61.722	54.096	1.00	25.49	B	O
	ATOM	2865	NE2	GLN	B	458	33.291	61.303	52.336	1.00	23.06	B	N
20	ATOM	2866	C	GLN	B	458	33.842	57.183	55.330	1.00	15.05	B	C
	ATOM	2867	O	GLN	B	458	34.803	57.210	54.559	1.00	14.09	B	O
	ATOM	2868	N	VAL	B	459	33.012	56.156	55.412	1.00	12.73	B	N
	ATOM	2869	CA	VAL	B	459	33.160	55.036	54.518	1.00	15.74	B	C
	ATOM	2870	CB	VAL	B	459	33.603	53.733	55.273	1.00	17.39	B	C
25	ATOM	2871	CG1	VAL	B	459	33.865	54.039	56.723	1.00	17.45	B	C
	ATOM	2872	CG2	VAL	B	459	32.583	52.617	55.107	1.00	18.94	B	C
	ATOM	2873	C	VAL	B	459	31.825	54.889	53.802	1.00	15.34	B	C
	ATOM	2874	O	VAL	B	459	30.817	54.505	54.397	1.00	16.90	B	O
	ATOM	2875	N	PRO	B	460	31.789	55.275	52.515	1.00	16.83	B	N
30	ATOM	2876	CD	PRO	B	460	32.900	55.862	51.739	1.00	13.37	B	C
	ATOM	2877	CA	PRO	B	460	30.560	55.178	51.723	1.00	14.61	B	C
	ATOM	2878	CB	PRO	B	460	30.956	55.769	50.370	1.00	15.52	B	C
	ATOM	2879	CG	PRO	B	460	32.190	56.600	50.657	1.00	12.68	B	C
	ATOM	2880	C	PRO	B	460	30.107	53.729	51.617	1.00	16.05	B	C
35	ATOM	2881	O	PRO	B	460	30.932	52.828	51.510	1.00	18.92	B	O
	ATOM	2882	N	ARG	B	461	28.800	53.508	51.659	1.00	15.18	B	N
	ATOM	2883	CA	ARG	B	461	28.260	52.161	51.569	1.00	19.68	B	C
	ATOM	2884	CB	ARG	B	461	26.913	52.082	52.298	1.00	17.00	B	C
	ATOM	2885	CG	ARG	B	461	26.937	52.649	53.713	1.00	14.29	B	C
40	ATOM	2886	CD	ARG	B	461	25.662	52.317	54.485	1.00	12.91	B	C
	ATOM	2887	NE	ARG	B	461	24.501	53.029	53.960	1.00	14.12	B	N
	ATOM	2888	CZ	ARG	B	461	24.218	54.300	54.227	1.00	13.35	B	C
	ATOM	2889	NH1	ARG	B	461	25.007	55.006	55.014	1.00	17.32	B	N
	ATOM	2890	NH2	ARG	B	461	23.156	54.877	53.687	1.00	15.83	B	N
45	ATOM	2891	C	ARG	B	461	28.092	51.768	50.105	1.00	21.60	B	C
	ATOM	2892	O	ARG	B	461	26.969	51.663	49.596	1.00	22.40	B	O
	ATOM	2893	N	ILE	B	462	29.216	51.550	49.426	1.00	22.31	B	N
	ATOM	2894	CA	ILE	B	462	29.187	51.178	48.014	1.00	20.66	B	C
	ATOM	2895	CB	ILE	B	462	29.777	52.310	47.138	1.00	19.83	B	C
50	ATOM	2896	CG2	ILE	B	462	28.952	53.593	47.319	1.00	11.83	B	C
	ATOM	2897	CG1	ILE	B	462	31.243	52.549	47.509	1.00	15.41	B	C
	ATOM	2898	CD1	ILE	B	462	31.901	53.651	46.708	1.00	11.03	B	C
	ATOM	2899	C	ILE	B	462	29.934	49.875	47.736	1.00	20.28	B	C
	ATOM	2900	O	ILE	B	462	30.676	49.769	46.763	1.00	21.42	B	O
55	ATOM	2901	N	TYR	B	463	29.732	48.885	48.599	1.00	20.88	B	N
	ATOM	2902	CA	TYR	B	463	30.384	47.598	48.432	1.00	22.10	B	C
	ATOM	2903	CB	TYR	B	463	29.964	46.633	49.548	1.00	19.19	B	C
	ATOM	2904	CG	TYR	B	463	30.112	45.170	49.179	1.00	18.27	B	C
	ATOM	2905	CD1	TYR	B	463	31.322	44.497	49.372	1.00	18.03	B	C
60	ATOM	2906	CE1	TYR	B	463	31.470	43.157	49.008	1.00	18.61	B	C
	ATOM	2907	CD2	TYR	B	463	29.049	44.466	48.617	1.00	15.97	B	C
	ATOM	2908	CE2	TYR	B	463	29.185	43.125	48.250	1.00	18.74	B	C
	ATOM	2909	CZ	TYR	B	463	30.396	42.479	48.447	1.00	18.96	B	C
	ATOM	2910	OH	TYR	B	463	30.526	41.161	48.076	1.00	19.54	B	O
65	ATOM	2911	C	TYR	B	463	29.991	47.016	47.080	1.00	24.65	B	C
	ATOM	2912	O	TYR	B	463	30.836	46.513	46.337	1.00	26.23	B	O
	ATOM	2913	N	ASP	B	464	28.701	47.092	46.767	1.00	24.99	B	N
	ATOM	2914	CA	ASP	B	464	28.182	46.563	45.509	1.00	25.61	B	C

	ATOM	2915	CB	ASP	B	464	26.689	46.901	45.369	1.00	25.28	B	C
	ATOM	2916	CG	ASP	B	464	26.394	48.384	45.563	1.00	29.98	B	C
	ATOM	2917	OD1	ASP	B	464	25.272	48.818	45.232	1.00	31.55	B	O
	ATOM	2918	OD2	ASP	B	464	27.272	49.126	46.044	1.00	33.50	B	O
5	ATOM	2919	C	ASP	B	464	28.958	47.075	44.292	1.00	24.64	B	C
	ATOM	2920	O	ASP	B	464	29.131	46.358	43.313	1.00	24.06	B	O
	ATOM	2921	N	VAL	B	465	29.441	48.308	44.362	1.00	24.96	B	N
	ATOM	2922	CA	VAL	B	465	30.191	48.889	43.257	1.00	25.55	B	C
	ATOM	2923	CB	VAL	B	465	30.351	50.414	43.440	1.00	22.61	B	C
10	ATOM	2924	CG1	VAL	B	465	31.323	50.972	42.421	1.00	19.34	B	C
	ATOM	2925	CG2	VAL	B	465	29.008	51.085	43.298	1.00	22.28	B	C
	ATOM	2926	C	VAL	B	465	31.575	48.254	43.136	1.00	29.40	B	C
	ATOM	2927	O	VAL	B	465	31.999	47.878	42.038	1.00	30.93	B	O
	ATOM	2928	N	PHE	B	466	32.273	48.138	44.263	1.00	27.48	B	N
15	ATOM	2929	CA	PHE	B	466	33.611	47.553	44.284	1.00	28.35	B	C
	ATOM	2930	CB	PHE	B	466	34.268	47.753	45.659	1.00	27.77	B	C
	ATOM	2931	CG	PHE	B	466	34.584	49.186	45.978	1.00	27.13	B	C
	ATOM	2932	CD1	PHE	B	466	35.074	50.038	44.996	1.00	27.88	B	C
	ATOM	2933	CD2	PHE	B	466	34.365	49.693	47.251	1.00	29.37	B	C
20	ATOM	2934	CE1	PHE	B	466	35.339	51.378	45.275	1.00	26.02	B	C
	ATOM	2935	CE2	PHE	B	466	34.626	51.029	47.542	1.00	28.45	B	C
	ATOM	2936	CZ	PHE	B	466	35.113	51.874	46.547	1.00	26.82	B	C
	ATOM	2937	C	PHE	B	466	33.563	46.065	43.964	1.00	27.67	B	C
	ATOM	2938	O	PHE	B	466	34.468	45.528	43.334	1.00	27.07	B	O
25	ATOM	2939	N	ARG	B	467	32.499	45.405	44.403	1.00	27.62	B	N
	ATOM	2940	CA	ARG	B	467	32.336	43.980	44.171	1.00	27.51	B	C
	ATOM	2941	CB	ARG	B	467	31.178	43.454	45.013	1.00	26.69	B	C
	ATOM	2942	CG	ARG	B	467	30.838	42.005	44.748	1.00	25.98	B	C
	ATOM	2943	CD	ARG	B	467	31.962	41.090	45.187	1.00	30.63	B	C
30	ATOM	2944	NE	ARG	B	467	31.661	39.710	44.835	1.00	35.61	B	N
	ATOM	2945	CZ	ARG	B	467	31.628	39.252	43.589	1.00	36.76	B	C
	ATOM	2946	NH1	ARG	B	467	31.881	40.069	42.577	1.00	39.22	B	N
	ATOM	2947	NH2	ARG	B	467	31.320	37.985	43.354	1.00	39.34	B	N
	ATOM	2948	C	ARG	B	467	32.092	43.636	42.701	1.00	29.55	B	C
35	ATOM	2949	O	ARG	B	467	32.632	42.653	42.190	1.00	30.33	B	O
	ATOM	2950	N	SER	B	468	31.277	44.440	42.023	1.00	29.61	B	N
	ATOM	2951	CA	SER	B	468	30.965	44.196	40.619	1.00	27.38	B	C
	ATOM	2952	CB	SER	B	468	29.784	45.063	40.183	1.00	25.88	B	C
	ATOM	2953	OG	SER	B	468	29.986	46.412	40.560	1.00	30.66	B	O
40	ATOM	2954	C	SER	B	468	32.176	44.463	39.733	1.00	27.88	B	C
	ATOM	2955	O	SER	B	468	32.245	43.978	38.606	1.00	30.26	B	O
	ATOM	2956	N	LYS	B	469	33.125	45.236	40.252	1.00	27.64	B	N
	ATOM	2957	CA	LYS	B	469	34.355	45.564	39.534	1.00	27.72	B	C
	ATOM	2958	CB	LYS	B	469	34.824	46.972	39.898	1.00	29.53	B	C
45	ATOM	2959	CG	LYS	B	469	34.321	48.074	38.990	1.00	34.21	B	C
	ATOM	2960	CD	LYS	B	469	34.846	49.428	39.452	1.00	39.69	B	C
	ATOM	2961	CE	LYS	B	469	34.289	50.568	38.598	1.00	45.54	B	C
	ATOM	2962	NZ	LYS	B	469	32.804	50.666	38.690	1.00	45.49	B	N
	ATOM	2963	C	LYS	B	469	35.423	44.561	39.965	1.00	27.79	B	C
50	ATOM	2964	O	LYS	B	469	36.595	44.672	39.598	1.00	25.09	B	O
	ATOM	2965	N	ASN	B	470	35.005	43.587	40.762	1.00	28.04	B	N
	ATOM	2966	CA	ASN	B	470	35.905	42.565	41.259	1.00	27.69	B	C
	ATOM	2967	CB	ASN	B	470	36.346	41.681	40.106	1.00	28.64	B	C
	ATOM	2968	CG	ASN	B	470	35.202	40.862	39.553	1.00	31.15	B	C
55	ATOM	2969	OD1	ASN	B	470	34.672	39.982	40.234	1.00	30.85	B	O
	ATOM	2970	ND2	ASN	B	470	34.804	41.152	38.316	1.00	31.91	B	N
	ATOM	2971	C	ASN	B	470	37.104	43.161	41.986	1.00	29.29	B	C
	ATOM	2972	O	ASN	B	470	38.223	42.662	41.897	1.00	27.56	B	O
	ATOM	2973	N	PHE	B	471	36.850	44.245	42.710	1.00	30.86	B	N
60	ATOM	2974	CA	PHE	B	471	37.871	44.914	43.501	1.00	31.39	B	C
	ATOM	2975	CB	PHE	B	471	37.509	46.382	43.696	1.00	31.26	B	C
	ATOM	2976	CG	PHE	B	471	37.993	47.283	42.601	1.00	34.24	B	C
	ATOM	2977	CD1	PHE	B	471	38.728	46.780	41.532	1.00	35.17	B	C
	ATOM	2978	CD2	PHE	B	471	37.721	48.646	42.643	1.00	35.43	B	C
65	ATOM	2979	CE1	PHE	B	471	39.189	47.623	40.522	1.00	33.84	B	C
	ATOM	2980	CE2	PHE	B	471	38.176	49.500	41.638	1.00	36.65	B	C
	ATOM	2981	CZ	PHE	B	471	38.913	48.986	40.576	1.00	35.71	B	C
	ATOM	2982	C	PHE	B	471	37.910	44.219	44.863	1.00	32.32	B	C

	ATOM	2983	O	PHE B 471	38.875	44.360	45.620	1.00	32.30	B	O
	ATOM	2984	N	LEU B 472	36.849	43.469	45.160	1.00	28.54	B	N
	ATOM	2985	CA	LEU B 472	36.731	42.741	46.420	1.00	27.96	B	C
	ATOM	2986	CB	LEU B 472	35.944	43.562	47.452	1.00	26.86	B	C
5	ATOM	2987	CG	LEU B 472	36.362	45.015	47.692	1.00	27.00	B	C
	ATOM	2988	CD1	LEU B 472	35.208	45.808	48.280	1.00	23.80	B	C
	ATOM	2989	CD2	LEU B 472	37.551	45.040	48.626	1.00	28.22	B	C
	ATOM	2990	C	LEU B 472	36.016	41.412	46.209	1.00	27.19	B	C
10	ATOM	2991	O	LEU B 472	35.130	41.304	45.364	1.00	27.02	B	O
	ATOM	2992	N	PRO B 473	36.393	40.380	46.980	1.00	26.30	B	N
	ATOM	2993	CD	PRO B 473	37.464	40.378	47.996	1.00	22.68	B	C
	ATOM	2994	CA	PRO B 473	35.757	39.067	46.847	1.00	24.97	B	C
	ATOM	2995	CB	PRO B 473	36.816	38.108	47.368	1.00	25.12	B	C
	ATOM	2996	CG	PRO B 473	37.578	38.925	48.386	1.00	25.39	B	C
15	ATOM	2997	C	PRO B 473	34.459	38.949	47.634	1.00	25.40	B	C
	ATOM	2998	O	PRO B 473	33.572	38.170	47.271	1.00	26.25	B	O
	ATOM	2999	N	HIS B 474	34.356	39.721	48.714	1.00	24.21	B	N
	ATOM	3000	CA	HIS B 474	33.177	39.698	49.583	1.00	24.30	B	C
20	ATOM	3001	CB	HIS B 474	33.181	38.413	50.409	1.00	21.79	B	C
	ATOM	3002	CG	HIS B 474	34.458	38.196	51.158	1.00	23.50	B	C
	ATOM	3003	CD2	HIS B 474	35.138	39.001	52.008	1.00	22.87	B	C
	ATOM	3004	ND1	HIS B 474	35.209	37.047	51.037	1.00	23.92	B	N
	ATOM	3005	CE1	HIS B 474	36.296	37.153	51.780	1.00	21.83	B	C
	ATOM	3006	NE2	HIS B 474	36.278	38.330	52.380	1.00	22.73	B	N
25	ATOM	3007	C	HIS B 474	33.204	40.910	50.523	1.00	23.59	B	C
	ATOM	3008	O	HIS B 474	34.146	41.701	50.490	1.00	23.22	B	O
	ATOM	3009	N	PHE B 475	32.183	41.039	51.369	1.00	24.36	B	N
	ATOM	3010	CA	PHE B 475	32.080	42.160	52.314	1.00	22.57	B	C
30	ATOM	3011	CB	PHE B 475	30.681	42.204	52.931	1.00	18.65	B	C
	ATOM	3012	CG	PHE B 475	30.380	43.473	53.679	1.00	19.34	B	C
	ATOM	3013	CD1	PHE B 475	30.142	43.445	55.053	1.00	20.96	B	C
	ATOM	3014	CD2	PHE B 475	30.292	44.692	53.013	1.00	20.17	B	C
	ATOM	3015	CE1	PHE B 475	29.819	44.608	55.751	1.00	16.41	B	C
35	ATOM	3016	CE2	PHE B 475	29.970	45.863	53.699	1.00	16.77	B	C
	ATOM	3017	CZ	PHE B 475	29.733	45.818	55.075	1.00	16.91	B	C
	ATOM	3018	C	PHE B 475	33.119	42.091	53.432	1.00	21.32	B	C
	ATOM	3019	O	PHE B 475	33.616	43.124	53.899	1.00	22.61	B	O
	ATOM	3020	N	GLY B 476	33.446	40.876	53.856	1.00	19.06	B	N
40	ATOM	3021	CA	GLY B 476	34.428	40.703	54.912	1.00	17.35	B	C
	ATOM	3022	C	GLY B 476	35.758	41.361	54.601	1.00	17.62	B	C
	ATOM	3023	O	GLY B 476	36.435	41.857	55.504	1.00	18.50	B	O
	ATOM	3024	N	LYS B 477	36.134	41.385	53.326	1.00	17.07	B	N
	ATOM	3025	CA	LYS B 477	37.400	41.985	52.931	1.00	18.01	B	C
	ATOM	3026	CB	LYS B 477	37.843	41.456	51.565	1.00	20.00	B	C
45	ATOM	3027	CG	LYS B 477	39.134	42.074	51.052	1.00	22.26	B	C
	ATOM	3028	CD	LYS B 477	40.375	41.452	51.683	1.00	25.99	B	C
	ATOM	3029	CE	LYS B 477	41.612	42.296	51.381	1.00	26.67	B	C
	ATOM	3030	NZ	LYS B 477	42.830	41.775	52.057	1.00	30.57	B	N
50	ATOM	3031	C	LYS B 477	37.318	43.501	52.902	1.00	18.26	B	C
	ATOM	3032	O	LYS B 477	38.345	44.186	52.919	1.00	19.93	B	O
	ATOM	3033	N	MET B 478	36.103	44.034	52.849	1.00	17.45	B	N
	ATOM	3034	CA	MET B 478	35.936	45.484	52.848	1.00	19.91	B	C
	ATOM	3035	CB	MET B 478	34.548	45.883	52.355	1.00	18.55	B	C
55	ATOM	3036	CG	MET B 478	34.403	47.381	52.148	1.00	20.87	B	C
	ATOM	3037	SD	MET B 478	32.713	47.872	51.737	1.00	25.11	B	S
	ATOM	3038	CE	MET B 478	32.911	49.644	51.547	1.00	22.83	B	C
	ATOM	3039	C	MET B 478	36.108	45.959	54.277	1.00	19.33	B	C
	ATOM	3040	O	MET B 478	36.713	47.001	54.534	1.00	18.83	B	O
60	ATOM	3041	N	LEU B 479	35.560	45.177	55.203	1.00	19.00	B	N
	ATOM	3042	CA	LEU B 479	35.644	45.483	56.623	1.00	18.52	B	C
	ATOM	3043	CB	LEU B 479	34.816	44.478	57.427	1.00	16.99	B	C
	ATOM	3044	CG	LEU B 479	33.291	44.635	57.429	1.00	15.46	B	C
	ATOM	3045	CD1	LEU B 479	32.665	43.429	58.124	1.00	12.54	B	C
	ATOM	3046	CD2	LEU B 479	32.892	45.920	58.132	1.00	11.28	B	C
65	ATOM	3047	C	LEU B 479	37.109	45.403	57.047	1.00	19.93	B	C
	ATOM	3048	O	LEU B 479	37.610	46.270	57.768	1.00	19.47	B	O
	ATOM	3049	N	GLU B 480	37.793	44.361	56.584	1.00	19.33	B	N
	ATOM	3050	CA	GLU B 480	39.200	44.172	56.911	1.00	19.91	B	C

	ATOM	3051	CB	GLU	B	480	39.713	42.873	56.281	1.00	22.03	B	C
	ATOM	3052	CG	GLU	B	480	41.233	42.730	56.272	1.00	27.40	B	C
	ATOM	3053	CD	GLU	B	480	41.686	41.310	55.971	1.00	30.87	B	C
	ATOM	3054	OE1	GLU	B	480	40.872	40.521	55.447	1.00	32.97	B	O
5	ATOM	3055	OE2	GLU	B	480	42.859	40.979	56.262	1.00	36.27	B	O
	ATOM	3056	C	GLU	B	480	40.057	45.353	56.446	1.00	19.51	B	C
	ATOM	3057	O	GLU	B	480	40.964	45.778	57.157	1.00	19.75	B	O
	ATOM	3058	N	ASN	B	481	39.765	45.878	55.257	1.00	19.70	B	N
	ATOM	3059	CA	ASN	B	481	40.516	47.007	54.707	1.00	19.84	B	C
10	ATOM	3060	CB	ASN	B	481	40.117	47.267	53.255	1.00	21.61	B	C
	ATOM	3061	CG	ASN	B	481	40.639	46.215	52.307	1.00	24.54	B	C
	ATOM	3062	OD1	ASN	B	481	40.016	45.933	51.286	1.00	28.07	B	O
	ATOM	3063	ND2	ASN	B	481	41.789	45.627	52.635	1.00	26.79	B	N
	ATOM	3064	C	ASN	B	481	40.262	48.272	55.504	1.00	17.87	B	C
15	ATOM	3065	O	ASN	B	481	41.150	49.112	55.658	1.00	17.33	B	O
	ATOM	3066	N	VAL	B	482	39.038	48.413	55.997	1.00	15.92	B	N
	ATOM	3067	CA	VAL	B	482	38.672	49.588	56.772	1.00	15.56	B	C
	ATOM	3068	CB	VAL	B	482	37.124	49.724	56.904	1.00	15.63	B	C
	ATOM	3069	CG1	VAL	B	482	36.781	50.964	57.718	1.00	14.92	B	C
20	ATOM	3070	CG2	VAL	B	482	36.478	49.815	55.536	1.00	13.00	B	C
	ATOM	3071	C	VAL	B	482	39.276	49.561	58.181	1.00	17.10	B	C
	ATOM	3072	O	VAL	B	482	39.829	50.559	58.651	1.00	16.50	B	O
	ATOM	3073	N	PHE	B	483	39.203	48.412	58.845	1.00	16.73	B	N
	ATOM	3074	CA	PHE	B	483	39.692	48.324	60.214	1.00	17.40	B	C
25	ATOM	3075	CB	PHE	B	483	38.630	47.638	61.066	1.00	14.55	B	C
	ATOM	3076	CG	PHE	B	483	37.326	48.376	61.104	1.00	14.68	B	C
	ATOM	3077	CD1	PHE	B	483	37.216	49.580	61.782	1.00	15.51	B	C
	ATOM	3078	CD2	PHE	B	483	36.214	47.883	60.443	1.00	14.83	B	C
	ATOM	3079	CE1	PHE	B	483	36.017	50.280	61.798	1.00	14.40	B	C
30	ATOM	3080	CE2	PHE	B	483	35.012	48.578	60.454	1.00	11.81	B	C
	ATOM	3081	CZ	PHE	B	483	34.915	49.777	61.133	1.00	12.12	B	C
	ATOM	3082	C	PHE	B	483	41.054	47.707	60.525	1.00	17.29	B	C
	ATOM	3083	O	PHE	B	483	41.733	48.166	61.441	1.00	21.10	B	O
	ATOM	3084	N	MET	B	484	41.464	46.679	59.795	1.00	17.97	B	N
35	ATOM	3085	CA	MET	B	484	42.744	46.037	60.080	1.00	20.15	B	C
	ATOM	3086	CB	MET	B	484	43.034	44.952	59.039	1.00	20.95	B	C
	ATOM	3087	CG	MET	B	484	44.189	44.027	59.400	1.00	24.57	B	C
	ATOM	3088	SD	MET	B	484	43.915	43.011	60.885	1.00	25.49	B	S
	ATOM	3089	CE	MET	B	484	42.968	41.664	60.226	1.00	23.71	B	C
40	ATOM	3090	C	MET	B	484	43.935	46.998	60.177	1.00	22.05	B	C
	ATOM	3091	O	MET	B	484	44.695	46.964	61.149	1.00	25.50	B	O
	ATOM	3092	N	PRO	B	485	44.119	47.868	59.175	1.00	21.49	B	N
	ATOM	3093	CD	PRO	B	485	43.339	48.040	57.941	1.00	20.15	B	C
	ATOM	3094	CA	PRO	B	485	45.251	48.797	59.239	1.00	21.62	B	C
45	ATOM	3095	CB	PRO	B	485	45.115	49.619	57.957	1.00	19.75	B	C
	ATOM	3096	CG	PRO	B	485	44.291	48.775	57.048	1.00	19.94	B	C
	ATOM	3097	C	PRO	B	485	45.285	49.680	60.485	1.00	23.29	B	C
	ATOM	3098	O	PRO	B	485	46.364	50.055	60.957	1.00	26.13	B	O
	ATOM	3099	N	VAL	B	486	44.114	50.024	61.009	1.00	22.46	B	N
50	ATOM	3100	CA	VAL	B	486	44.044	50.874	62.192	1.00	23.56	B	C
	ATOM	3101	CB	VAL	B	486	42.650	51.491	62.361	1.00	23.61	B	C
	ATOM	3102	CG1	VAL	B	486	42.759	52.773	63.148	1.00	26.26	B	C
	ATOM	3103	CG2	VAL	B	486	42.039	51.767	61.004	1.00	23.70	B	C
	ATOM	3104	C	VAL	B	486	44.397	50.096	63.455	1.00	23.48	B	C
55	ATOM	3105	O	VAL	B	486	45.020	50.637	64.373	1.00	23.97	B	O
	ATOM	3106	N	PHE	B	487	43.990	48.830	63.500	1.00	21.48	B	N
	ATOM	3107	CA	PHE	B	487	44.295	47.972	64.637	1.00	22.88	B	C
	ATOM	3108	CB	PHE	B	487	43.610	46.615	64.479	1.00	21.01	B	C
	ATOM	3109	CG	PHE	B	487	42.224	46.558	65.061	1.00	22.52	B	C
60	ATOM	3110	CD1	PHE	B	487	41.124	46.955	64.307	1.00	23.83	B	C
	ATOM	3111	CD2	PHE	B	487	42.016	46.115	66.362	1.00	19.87	B	C
	ATOM	3112	CE1	PHE	B	487	39.833	46.913	64.841	1.00	21.14	B	C
	ATOM	3113	CE2	PHE	B	487	40.736	46.068	66.905	1.00	18.54	B	C
	ATOM	3114	CZ	PHE	B	487	39.642	46.467	66.145	1.00	21.88	B	C
65	ATOM	3115	C	PHE	B	487	45.810	47.776	64.666	1.00	25.46	B	C
	ATOM	3116	O	PHE	B	487	46.450	47.893	65.713	1.00	26.42	B	O
	ATOM	3117	N	GLU	B	488	46.377	47.492	63.498	1.00	26.21	B	N
	ATOM	3118	CA	GLU	B	488	47.812	47.279	63.361	1.00	28.07	B	C

	ATOM	3119	CB	GLU	B	488	48.168	47.010	61.895	1.00	31.11	B	C
	ATOM	3120	CG	GLU	B	488	48.461	45.552	61.578	1.00	36.38	B	C
	ATOM	3121	CD	GLU	B	488	48.044	45.161	60.162	1.00	40.60	B	C
5	ATOM	3122	OE1	GLU	B	488	47.892	46.070	59.312	1.00	40.51	B	O
	ATOM	3123	OE2	GLU	B	488	47.871	43.945	59.900	1.00	40.12	B	O
	ATOM	3124	C	GLU	B	488	48.631	48.459	63.873	1.00	24.85	B	C
	ATOM	3125	O	GLU	B	488	49.653	48.268	64.522	1.00	25.29	B	O
	ATOM	3126	N	ALA	B	489	48.191	49.674	63.574	1.00	22.51	B	N
10	ATOM	3127	CA	ALA	B	489	48.908	50.864	64.030	1.00	23.94	B	C
	ATOM	3128	CB	ALA	B	489	48.450	52.082	63.235	1.00	20.65	B	C
	ATOM	3129	C	ALA	B	489	48.696	51.104	65.530	1.00	22.37	B	C
	ATOM	3130	O	ALA	B	489	49.447	51.849	66.162	1.00	21.12	B	O
	ATOM	3131	N	THR	B	490	47.666	50.470	66.085	1.00	22.78	B	N
15	ATOM	3132	CA	THR	B	490	47.341	50.598	67.504	1.00	24.40	B	C
	ATOM	3133	CB	THR	B	490	45.865	50.200	67.775	1.00	23.31	B	C
	ATOM	3134	OG1	THR	B	490	44.991	51.208	67.253	1.00	21.42	B	O
	ATOM	3135	CG2	THR	B	490	45.613	50.051	69.265	1.00	23.91	B	C
	ATOM	3136	C	THR	B	490	48.254	49.679	68.312	1.00	27.04	B	C
20	ATOM	3137	O	THR	B	490	48.811	50.062	69.338	1.00	28.79	B	O
	ATOM	3138	N	ILE	B	491	48.404	48.459	67.822	1.00	27.78	B	N
	ATOM	3139	CA	ILE	B	491	49.235	47.459	68.461	1.00	27.11	B	C
	ATOM	3140	CB	ILE	B	491	48.891	46.073	67.882	1.00	26.78	B	C
	ATOM	3141	CG2	ILE	B	491	50.134	45.335	67.447	1.00	31.76	B	C
25	ATOM	3142	CG1	ILE	B	491	48.110	45.282	68.914	1.00	26.16	B	C
	ATOM	3143	CD1	ILE	B	491	46.671	45.121	68.543	1.00	29.57	B	C
	ATOM	3144	C	ILE	B	491	50.729	47.764	68.290	1.00	28.70	B	C
	ATOM	3145	O	ILE	B	491	51.502	47.637	69.238	1.00	31.53	B	O
	ATOM	3146	N	ASN	B	492	51.132	48.173	67.087	1.00	27.75	B	N
30	ATOM	3147	CA	ASN	B	492	52.533	48.485	66.806	1.00	26.08	B	C
	ATOM	3148	CB	ASN	B	492	53.091	47.488	65.788	1.00	26.55	B	C
	ATOM	3149	CG	ASN	B	492	52.965	46.045	66.258	1.00	27.11	B	C
	ATOM	3150	OD1	ASN	B	492	53.407	45.700	67.355	1.00	30.81	B	O
	ATOM	3151	ND2	ASN	B	492	52.362	45.196	65.430	1.00	21.55	B	N
35	ATOM	3152	C	ASN	B	492	52.695	49.909	66.279	1.00	24.43	B	C
	ATOM	3153	O	ASN	B	492	53.019	50.120	65.116	1.00	25.03	B	O
	ATOM	3154	N	PRO	B	493	52.493	50.908	67.148	1.00	24.17	B	N
	ATOM	3155	CD	PRO	B	493	52.137	50.759	68.568	1.00	21.84	B	C
	ATOM	3156	CA	PRO	B	493	52.612	52.317	66.758	1.00	24.16	B	C
40	ATOM	3157	CB	PRO	B	493	52.245	53.081	68.033	1.00	22.02	B	C
	ATOM	3158	CG	PRO	B	493	51.542	52.085	68.900	1.00	21.44	B	C
	ATOM	3159	C	PRO	B	493	53.970	52.745	66.213	1.00	26.00	B	C
	ATOM	3160	O	PRO	B	493	54.066	53.726	65.480	1.00	28.30	B	O
	ATOM	3161	N	GLN	B	494	55.024	52.030	66.573	1.00	29.64	B	N
45	ATOM	3162	CA	GLN	B	494	56.352	52.389	66.092	1.00	32.86	B	C
	ATOM	3163	CB	GLN	B	494	57.416	51.780	66.996	1.00	36.62	B	C
	ATOM	3164	CG	GLN	B	494	57.242	52.153	68.455	1.00	41.17	B	C
	ATOM	3165	CD	GLN	B	494	57.806	53.516	68.779	1.00	41.49	B	C
	ATOM	3166	OE1	GLN	B	494	58.241	53.761	69.902	1.00	46.95	B	O
50	ATOM	3167	NE2	GLN	B	494	57.804	54.412	67.799	1.00	43.58	B	N
	ATOM	3168	C	GLN	B	494	56.560	51.924	64.656	1.00	32.86	B	C
	ATOM	3169	O	GLN	B	494	57.332	52.519	63.906	1.00	33.31	B	O
	ATOM	3170	N	ALA	B	495	55.866	50.856	64.281	1.00	31.88	B	N
	ATOM	3171	CA	ALA	B	495	55.960	50.316	62.935	1.00	31.29	B	C
55	ATOM	3172	CB	ALA	B	495	55.409	48.907	62.906	1.00	30.07	B	C
	ATOM	3173	C	ALA	B	495	55.178	51.205	61.975	1.00	33.22	B	C
	ATOM	3174	O	ALA	B	495	55.527	51.322	60.796	1.00	36.48	B	O
	ATOM	3175	N	HIS	B	496	54.123	51.835	62.489	1.00	30.36	B	N
	ATOM	3176	CA	HIS	B	496	53.278	52.716	61.687	1.00	28.15	B	C
60	ATOM	3177	CB	HIS	B	496	51.894	52.094	61.544	1.00	25.72	B	C
	ATOM	3178	CG	HIS	B	496	51.927	50.645	61.167	1.00	28.00	B	C
	ATOM	3179	CD2	HIS	B	496	51.535	49.538	61.841	1.00	29.53	B	C
	ATOM	3180	ND1	HIS	B	496	52.422	50.202	59.960	1.00	30.60	B	N
	ATOM	3181	CE1	HIS	B	496	52.334	48.885	59.906	1.00	25.96	B	C
65	ATOM	3182	NE2	HIS	B	496	51.799	48.456	61.035	1.00	26.18	B	N
	ATOM	3183	C	HIS	B	496	53.173	54.099	62.333	1.00	26.42	B	C
	ATOM	3184	O	HIS	B	496	52.104	54.514	62.773	1.00	26.30	B	O
	ATOM	3185	N	PRO	B	497	54.293	54.831	62.398	1.00	25.05	B	N
	ATOM	3186	CD	PRO	B	497	55.615	54.404	61.913	1.00	22.66	B	C

	ATOM	3187	CA	PRO	B	497	54.338	56.171	62.993	1.00	24.89	B	C
	ATOM	3188	CB	PRO	B	497	55.807	56.570	62.876	1.00	24.49	B	C
	ATOM	3189	CG	PRO	B	497	56.359	55.698	61.802	1.00	22.37	B	C
5	ATOM	3190	C	PRO	B	497	53.421	57.230	62.386	1.00	26.25	B	C
	ATOM	3191	O	PRO	B	497	52.715	57.926	63.114	1.00	28.34	B	O
	ATOM	3192	N	GLU	B	498	53.443	57.368	61.063	1.00	26.09	B	N
	ATOM	3193	CA	GLU	B	498	52.624	58.372	60.389	1.00	25.51	B	C
	ATOM	3194	CB	GLU	B	498	52.966	58.428	58.897	1.00	28.08	B	C
10	ATOM	3195	CG	GLU	B	498	53.374	59.818	58.426	1.00	32.43	B	C
	ATOM	3196	CD	GLU	B	498	53.782	59.861	56.961	1.00	36.99	B	C
	ATOM	3197	OE1	GLU	B	498	53.444	58.921	56.210	1.00	39.79	B	O
	ATOM	3198	OE2	GLU	B	498	54.444	60.845	56.557	1.00	40.75	B	O
	ATOM	3199	C	GLU	B	498	51.134	58.118	60.574	1.00	24.70	B	C
15	ATOM	3200	O	GLU	B	498	50.357	59.043	60.831	1.00	23.48	B	O
	ATOM	3201	N	LEU	B	499	50.731	56.862	60.444	1.00	21.04	B	N
	ATOM	3202	CA	LEU	B	499	49.333	56.515	60.619	1.00	20.64	B	C
	ATOM	3203	CB	LEU	B	499	49.102	55.056	60.230	1.00	18.16	B	C
	ATOM	3204	CG	LEU	B	499	47.703	54.484	60.481	1.00	18.97	B	C
20	ATOM	3205	CD1	LEU	B	499	46.646	55.427	59.926	1.00	11.75	B	C
	ATOM	3206	CD2	LEU	B	499	47.594	53.106	59.832	1.00	15.04	B	C
	ATOM	3207	C	LEU	B	499	48.945	56.736	62.084	1.00	21.79	B	C
	ATOM	3208	O	LEU	B	499	47.860	57.227	62.379	1.00	22.75	B	O
	ATOM	3209	N	SER	B	500	49.846	56.376	62.995	1.00	22.88	B	N
25	ATOM	3210	CA	SER	B	500	49.604	56.530	64.426	1.00	22.47	B	C
	ATOM	3211	CB	SER	B	500	50.822	56.049	65.225	1.00	22.43	B	C
	ATOM	3212	OG	SER	B	500	50.900	54.632	65.254	1.00	19.54	B	O
	ATOM	3213	C	SER	B	500	49.317	57.988	64.767	1.00	24.66	B	C
	ATOM	3214	O	SER	B	500	48.400	58.290	65.535	1.00	26.97	B	O
30	ATOM	3215	N	VAL	B	501	50.110	58.889	64.197	1.00	22.69	B	N
	ATOM	3216	CA	VAL	B	501	49.947	60.313	64.438	1.00	22.48	B	C
	ATOM	3217	CB	VAL	B	501	51.100	61.103	63.796	1.00	22.03	B	C
	ATOM	3218	CG1	VAL	B	501	50.722	62.565	63.630	1.00	21.76	B	C
	ATOM	3219	CG2	VAL	B	501	52.337	60.975	64.657	1.00	20.84	B	C
35	ATOM	3220	C	VAL	B	501	48.617	60.789	63.861	1.00	25.83	B	C
	ATOM	3221	O	VAL	B	501	47.877	61.544	64.499	1.00	26.23	B	O
	ATOM	3222	N	PHE	B	502	48.315	60.334	62.651	1.00	25.13	B	N
	ATOM	3223	CA	PHE	B	502	47.080	60.704	61.975	1.00	21.17	B	C
	ATOM	3224	CB	PHE	B	502	47.014	59.986	60.618	1.00	21.93	B	C
40	ATOM	3225	CG	PHE	B	502	45.765	60.275	59.822	1.00	19.32	B	C
	ATOM	3226	CD1	PHE	B	502	45.380	61.582	59.546	1.00	16.72	B	C
	ATOM	3227	CD2	PHE	B	502	44.981	59.232	59.340	1.00	17.48	B	C
	ATOM	3228	CE1	PHE	B	502	44.227	61.843	58.801	1.00	19.06	B	C
	ATOM	3229	CE2	PHE	B	502	43.830	59.483	58.595	1.00	17.80	B	C
45	ATOM	3230	CZ	PHE	B	502	43.453	60.790	58.325	1.00	15.79	B	C
	ATOM	3231	C	PHE	B	502	45.884	60.326	62.848	1.00	21.61	B	C
	ATOM	3232	O	PHE	B	502	44.986	61.139	63.077	1.00	20.36	B	O
	ATOM	3233	N	LEU	B	503	45.887	59.092	63.345	1.00	21.66	B	N
	ATOM	3234	CA	LEU	B	503	44.810	58.583	64.190	1.00	20.95	B	C
50	ATOM	3235	CB	LEU	B	503	45.126	57.157	64.632	1.00	15.59	B	C
	ATOM	3236	CG	LEU	B	503	45.009	56.121	63.517	1.00	17.81	B	C
	ATOM	3237	CD1	LEU	B	503	45.435	54.762	64.032	1.00	14.21	B	C
	ATOM	3238	CD2	LEU	B	503	43.573	56.081	63.003	1.00	16.08	B	C
	ATOM	3239	C	LEU	B	503	44.524	59.446	65.420	1.00	21.01	B	C
55	ATOM	3240	O	LEU	B	503	43.441	59.373	65.991	1.00	24.20	B	O
	ATOM	3241	N	LYS	B	504	45.491	60.253	65.836	1.00	21.12	B	N
	ATOM	3242	CA	LYS	B	504	45.287	61.122	66.989	1.00	22.18	B	C
	ATOM	3243	CB	LYS	B	504	46.623	61.622	67.530	1.00	19.47	B	C
	ATOM	3244	CG	LYS	B	504	47.339	60.604	68.376	1.00	23.41	B	C
60	ATOM	3245	CD	LYS	B	504	48.772	61.020	68.630	1.00	28.04	B	C
	ATOM	3246	CE	LYS	B	504	48.850	62.129	69.657	1.00	31.48	B	C
	ATOM	3247	NZ	LYS	B	504	50.219	62.719	69.685	1.00	39.49	B	N
	ATOM	3248	C	LYS	B	504	44.441	62.315	66.577	1.00	21.84	B	C
	ATOM	3249	O	LYS	B	504	43.947	63.049	67.427	1.00	22.48	B	O
65	ATOM	3250	N	HIS	B	505	44.278	62.493	65.266	1.00	21.16	B	N
	ATOM	3251	CA	HIS	B	505	43.516	63.606	64.711	1.00	16.83	B	C
	ATOM	3252	CB	HIS	B	505	44.278	64.216	63.538	1.00	17.36	B	C
	ATOM	3253	CG	HIS	B	505	45.526	64.938	63.940	1.00	20.27	B	C
	ATOM	3254	CD2	HIS	B	505	46.752	64.478	64.279	1.00	20.63	B	C

	ATOM	3255	ND1	HIS	B	505	45.593	66.312	64.037	1.00	24.75	B	N
	ATOM	3256	CE1	HIS	B	505	46.809	66.665	64.417	1.00	22.28	B	C
	ATOM	3257	NE2	HIS	B	505	47.532	65.572	64.570	1.00	19.00	B	N
	ATOM	3258	C	HIS	B	505	42.114	63.237	64.260	1.00	14.76	B	C
5	ATOM	3259	O	HIS	B	505	41.333	64.114	63.913	1.00	16.79	B	O
	ATOM	3260	N	ILE	B	506	41.804	61.943	64.263	1.00	14.06	B	N
	ATOM	3261	CA	ILE	B	506	40.489	61.454	63.857	1.00	14.09	B	C
	ATOM	3262	CB	ILE	B	506	40.590	60.071	63.158	1.00	12.02	B	C
	ATOM	3263	CG2	ILE	B	506	39.203	59.514	62.883	1.00	8.63	B	C
10	ATOM	3264	CG1	ILE	B	506	41.386	60.199	61.851	1.00	12.56	B	C
	ATOM	3265	CD1	ILE	B	506	40.919	61.309	60.920	1.00	13.46	B	C
	ATOM	3266	C	ILE	B	506	39.626	61.320	65.104	1.00	17.05	B	C
	ATOM	3267	O	ILE	B	506	39.992	60.609	66.044	1.00	21.03	B	O
15	ATOM	3268	N	THR	B	507	38.481	62.002	65.105	1.00	17.11	B	N
	ATOM	3269	CA	THR	B	507	37.566	61.987	66.243	1.00	15.88	B	C
	ATOM	3270	CB	THR	B	507	36.929	63.394	66.458	1.00	14.08	B	C
	ATOM	3271	OG1	THR	B	507	35.997	63.678	65.410	1.00	19.86	B	O
	ATOM	3272	CG2	THR	B	507	37.994	64.463	66.450	1.00	9.02	B	C
20	ATOM	3273	C	THR	B	507	36.459	60.929	66.133	1.00	15.00	B	C
	ATOM	3274	O	THR	B	507	35.956	60.439	67.153	1.00	14.56	B	O
	ATOM	3275	N	GLY	B	508	36.088	60.561	64.909	1.00	12.72	B	N
	ATOM	3276	CA	GLY	B	508	35.047	59.559	64.749	1.00	10.51	B	C
	ATOM	3277	C	GLY	B	508	34.847	59.021	63.346	1.00	11.47	B	C
	ATOM	3278	O	GLY	B	508	35.501	59.458	62.394	1.00	9.10	B	O
25	ATOM	3279	N	PHE	B	509	33.926	58.065	63.226	1.00	11.97	B	N
	ATOM	3280	CA	PHE	B	509	33.604	57.433	61.954	1.00	13.06	B	C
	ATOM	3281	CB	PHE	B	509	33.745	55.923	62.072	1.00	11.75	B	C
	ATOM	3282	CG	PHE	B	509	35.161	55.459	62.119	1.00	18.51	B	C
	ATOM	3283	CD1	PHE	B	509	35.819	55.065	60.952	1.00	17.96	B	C
30	ATOM	3284	CD2	PHE	B	509	35.856	55.431	63.327	1.00	18.53	B	C
	ATOM	3285	CE1	PHE	B	509	37.152	54.652	60.985	1.00	19.66	B	C
	ATOM	3286	CE2	PHE	B	509	37.194	55.018	63.373	1.00	18.62	B	C
	ATOM	3287	CZ	PHE	B	509	37.842	54.629	62.200	1.00	19.57	B	C
	ATOM	3288	C	PHE	B	509	32.196	57.764	61.475	1.00	15.49	B	C
35	ATOM	3289	O	PHE	B	509	31.273	57.889	62.280	1.00	15.38	B	O
	ATOM	3290	N	ASP	B	510	32.045	57.896	60.157	1.00	15.82	B	N
	ATOM	3291	CA	ASP	B	510	30.760	58.208	59.534	1.00	16.15	B	C
	ATOM	3292	CB	ASP	B	510	30.809	59.608	58.916	1.00	16.98	B	C
	ATOM	3293	CG	ASP	B	510	29.429	60.193	58.676	1.00	17.70	B	C
40	ATOM	3294	OD1	ASP	B	510	28.444	59.423	58.663	1.00	20.42	B	O
	ATOM	3295	OD2	ASP	B	510	29.326	61.425	58.496	1.00	19.18	B	O
	ATOM	3296	C	ASP	B	510	30.458	57.173	58.452	1.00	17.18	B	C
	ATOM	3297	O	ASP	B	510	31.367	56.521	57.945	1.00	19.29	B	O
	ATOM	3298	N	SER	B	511	29.181	57.013	58.112	1.00	18.35	B	N
45	ATOM	3299	CA	SER	B	511	28.753	56.063	57.085	1.00	17.81	B	C
	ATOM	3300	CB	SER	B	511	27.995	54.910	57.735	1.00	14.87	B	C
	ATOM	3301	OG	SER	B	511	27.044	54.346	56.858	1.00	15.96	B	O
	ATOM	3302	C	SER	B	511	27.852	56.834	56.113	1.00	21.24	B	C
	ATOM	3303	O	SER	B	511	26.774	57.278	56.480	1.00	22.02	B	O
50	ATOM	3304	N	VAL	B	512	28.307	56.986	54.872	1.00	24.65	B	N
	ATOM	3305	CA	VAL	B	512	27.584	57.751	53.857	1.00	22.65	B	C
	ATOM	3306	CB	VAL	B	512	28.456	58.925	53.399	1.00	19.92	B	C
	ATOM	3307	CG1	VAL	B	512	28.977	59.685	54.607	1.00	17.18	B	C
	ATOM	3308	CG2	VAL	B	512	29.642	58.402	52.609	1.00	18.88	B	C
55	ATOM	3309	C	VAL	B	512	27.171	56.930	52.628	1.00	25.52	B	C
	ATOM	3310	O	VAL	B	512	27.617	55.799	52.455	1.00	26.08	B	O
	ATOM	3311	N	ASP	B	513	26.339	57.523	51.772	1.00	29.93	B	N
	ATOM	3312	CA	ASP	B	513	25.829	56.872	50.554	1.00	33.72	B	C
	ATOM	3313	CB	ASP	B	513	25.938	55.322	50.638	1.00	40.66	B	C
60	ATOM	3314	CG	ASP	B	513	25.261	54.578	49.435	1.00	43.71	B	C
	ATOM	3315	OD1	ASP	B	513	25.413	55.028	48.270	1.00	46.05	B	O
	ATOM	3316	OD2	ASP	B	513	24.589	53.535	49.657	1.00	37.64	B	O
	ATOM	3317	C	ASP	B	513	24.362	57.236	50.438	1.00	31.23	B	C
	ATOM	3318	O	ASP	B	513	23.804	57.905	51.307	1.00	31.62	B	O
65	ATOM	3319	N	ASP	B	514	23.744	56.798	49.352	1.00	29.20	B	N
	ATOM	3320	CA	ASP	B	514	22.332	57.031	49.154	1.00	30.23	B	C
	ATOM	3321	CB	ASP	B	514	21.911	56.485	47.794	1.00	28.49	B	C
	ATOM	3322	CG	ASP	B	514	20.510	56.883	47.419	1.00	31.25	B	C

	ATOM	3323	OD1	ASP	B	514	19.736	57.289	48.311	1.00	30.19	B	O
	ATOM	3324	OD2	ASP	B	514	20.182	56.787	46.222	1.00	36.93	B	O
	ATOM	3325	C	ASP	B	514	21.681	56.222	50.272	1.00	29.93	B	C
5	ATOM	3326	O	ASP	B	514	22.125	55.114	50.561	1.00	30.45	B	O
	ATOM	3327	N	GLU	B	515	20.654	56.773	50.914	1.00	28.51	B	N
	ATOM	3328	CA	GLU	B	515	19.975	56.059	51.988	1.00	25.93	B	C
	ATOM	3329	CB	GLU	B	515	19.812	56.959	53.221	1.00	23.44	B	C
	ATOM	3330	CG	GLU	B	515	20.031	56.241	54.550	1.00	19.34	B	C
10	ATOM	3331	CD	GLU	B	515	19.510	57.023	55.752	1.00	17.22	B	C
	ATOM	3332	OE1	GLU	B	515	19.645	58.265	55.771	1.00	17.75	B	O
	ATOM	3333	OE2	GLU	B	515	18.969	56.393	56.685	1.00	15.31	B	O
	ATOM	3334	C	GLU	B	515	18.610	55.603	51.507	1.00	27.43	B	C
	ATOM	3335	O	GLU	B	515	17.982	54.742	52.130	1.00	27.32	B	O
15	ATOM	3336	N	SER	B	516	18.157	56.178	50.392	1.00	30.49	B	N
	ATOM	3337	CA	SER	B	516	16.845	55.845	49.824	1.00	34.03	B	C
	ATOM	3338	CB	SER	B	516	16.362	56.964	48.893	1.00	34.65	B	C
	ATOM	3339	OG	SER	B	516	17.285	57.194	47.836	1.00	33.70	B	O
	ATOM	3340	C	SER	B	516	16.823	54.528	49.062	1.00	35.98	B	C
20	ATOM	3341	O	SER	B	516	15.759	53.952	48.837	1.00	36.10	B	O
	ATOM	3342	N	LYS	B	517	17.997	54.053	48.663	1.00	39.57	B	N
	ATOM	3343	CA	LYS	B	517	18.091	52.803	47.927	1.00	43.57	B	C
	ATOM	3344	CB	LYS	B	517	19.548	52.437	47.673	1.00	43.77	B	C
	ATOM	3345	CG	LYS	B	517	19.998	52.646	46.237	1.00	42.63	B	C
25	ATOM	3346	CD	LYS	B	517	21.485	53.030	46.155	1.00	45.68	B	C
	ATOM	3347	CE	LYS	B	517	22.314	52.493	47.337	1.00	44.39	B	C
	ATOM	3348	NZ	LYS	B	517	22.895	51.151	47.061	1.00	43.05	B	N
	ATOM	3349	C	LYS	B	517	17.417	51.662	48.666	1.00	48.44	B	C
	ATOM	3350	O	LYS	B	517	17.406	51.610	49.898	1.00	50.03	B	O
30	ATOM	3351	N	HIS	B	518	16.855	50.755	47.879	1.00	53.83	B	N
	ATOM	3352	CA	HIS	B	518	16.152	49.565	48.347	1.00	58.18	B	C
	ATOM	3353	CB	HIS	B	518	15.483	48.897	47.153	1.00	62.86	B	C
	ATOM	3354	CG	HIS	B	518	16.436	48.637	46.025	1.00	68.78	B	C
	ATOM	3355	CD2	HIS	B	518	16.827	49.420	44.988	1.00	70.04	B	C
35	ATOM	3356	ND1	HIS	B	518	17.182	47.479	45.931	1.00	70.08	B	N
	ATOM	3357	CE1	HIS	B	518	17.990	47.560	44.889	1.00	70.98	B	C
	ATOM	3358	NE2	HIS	B	518	17.795	48.727	44.299	1.00	72.60	B	N
	ATOM	3359	C	HIS	B	518	17.146	48.570	48.938	1.00	59.50	B	C
	ATOM	3360	O	HIS	B	518	18.337	48.601	48.616	1.00	61.11	B	O
40	ATOM	3361	N	SER	B	519	16.651	47.674	49.784	1.00	57.88	B	N
	ATOM	3362	CA	SER	B	519	17.501	46.650	50.371	1.00	57.68	B	C
	ATOM	3363	CB	SER	B	519	17.709	46.903	51.865	1.00	55.39	B	C
	ATOM	3364	OG	SER	B	519	18.505	45.876	52.432	1.00	52.40	B	O
	ATOM	3365	C	SER	B	519	16.823	45.301	50.160	1.00	58.66	B	C
45	ATOM	3366	O	SER	B	519	17.306	44.456	49.393	1.00	59.31	B	O
	ATOM	3367	N	GLY	B	520	15.691	45.115	50.837	1.00	58.44	B	N
	ATOM	3368	CA	GLY	B	520	14.943	43.876	50.724	1.00	57.10	B	C
	ATOM	3369	C	GLY	B	520	15.356	42.821	51.734	1.00	56.14	B	C
	ATOM	3370	O	GLY	B	520	14.540	41.996	52.143	1.00	56.59	B	O
50	ATOM	3371	N	HIS	B	521	16.619	42.850	52.145	1.00	55.30	B	N
	ATOM	3372	CA	HIS	B	521	17.139	41.874	53.095	1.00	54.79	B	C
	ATOM	3373	CB	HIS	B	521	18.268	41.070	52.435	1.00	57.61	B	C
	ATOM	3374	CG	HIS	B	521	19.160	41.888	51.546	1.00	61.58	B	C
	ATOM	3375	CD2	HIS	B	521	19.830	43.045	51.773	1.00	62.72	B	C
55	ATOM	3376	ND1	HIS	B	521	19.443	41.533	50.243	1.00	63.23	B	N
	ATOM	3377	CE1	HIS	B	521	20.247	42.435	49.705	1.00	65.34	B	C
	ATOM	3378	NE2	HIS	B	521	20.497	43.364	50.613	1.00	64.77	B	N
	ATOM	3379	C	HIS	B	521	17.667	42.535	54.365	1.00	53.47	B	C
	ATOM	3380	O	HIS	B	521	18.748	43.121	54.349	1.00	56.78	B	O
60	ATOM	3381	N	MET	B	522	16.929	42.444	55.468	1.00	50.18	B	N
	ATOM	3382	CA	MET	B	522	17.418	43.058	56.697	1.00	50.20	B	C
	ATOM	3383	CB	MET	B	522	16.293	43.744	57.468	1.00	51.09	B	C
	ATOM	3384	CG	MET	B	522	16.767	45.016	58.161	1.00	54.15	B	C
	ATOM	3385	SD	MET	B	522	16.287	45.140	59.902	1.00	60.57	B	S
65	ATOM	3386	CE	MET	B	522	14.512	45.424	59.725	1.00	58.43	B	C
	ATOM	3387	C	MET	B	522	18.157	42.103	57.631	1.00	46.96	B	C
	ATOM	3388	O	MET	B	522	17.904	40.895	57.653	1.00	46.06	B	O
	ATOM	3389	N	PHE	B	523	19.077	42.681	58.398	1.00	42.56	B	N
	ATOM	3390	CA	PHE	B	523	19.906	41.963	59.359	1.00	38.59	B	C

	ATOM	3391	CB	PHE	B	523	20.576	42.977	60.287	1.00	35.69	B	C
	ATOM	3392	CG	PHE	B	523	21.807	42.460	60.962	1.00	34.15	B	C
	ATOM	3393	CD1	PHE	B	523	22.781	41.779	60.238	1.00	31.37	B	C
	ATOM	3394	CD2	PHE	B	523	21.998	42.660	62.326	1.00	30.82	B	C
5	ATOM	3395	CE1	PHE	B	523	23.929	41.304	60.864	1.00	31.32	B	C
	ATOM	3396	CE2	PHE	B	523	23.144	42.188	62.960	1.00	32.97	B	C
	ATOM	3397	CZ	PHE	B	523	24.113	41.507	62.226	1.00	30.09	B	C
	ATOM	3398	C	PHE	B	523	19.142	40.933	60.191	1.00	35.77	B	C
	ATOM	3399	O	PHE	B	523	18.093	41.231	60.752	1.00	33.68	B	O
10	ATOM	3400	N	SER	B	524	19.688	39.725	60.278	1.00	34.49	B	N
	ATOM	3401	CA	SER	B	524	19.064	38.655	61.043	1.00	35.12	B	C
	ATOM	3402	CB	SER	B	524	17.915	38.045	60.242	1.00	35.33	B	C
	ATOM	3403	OG	SER	B	524	18.193	36.697	59.897	1.00	35.72	B	O
	ATOM	3404	C	SER	B	524	20.063	37.561	61.406	1.00	36.40	B	C
15	ATOM	3405	O	SER	B	524	21.234	37.621	61.037	1.00	38.17	B	O
	ATOM	3406	N	SER	B	525	19.587	36.558	62.132	1.00	38.03	B	N
	ATOM	3407	CA	SER	B	525	20.420	35.438	62.545	1.00	40.27	B	C
	ATOM	3408	CB	SER	B	525	19.631	34.539	63.497	1.00	39.96	B	C
	ATOM	3409	OG	SER	B	525	20.346	34.331	64.699	1.00	47.37	B	O
20	ATOM	3410	C	SER	B	525	20.861	34.623	61.330	1.00	40.84	B	C
	ATOM	3411	O	SER	B	525	21.928	34.005	61.332	1.00	38.31	B	O
	ATOM	3412	N	LYS	B	526	20.021	34.633	60.298	1.00	41.88	B	N
	ATOM	3413	CA	LYS	B	526	20.275	33.897	59.065	1.00	40.92	B	C
	ATOM	3414	CB	LYS	B	526	18.960	33.672	58.314	1.00	46.68	B	C
25	ATOM	3415	CG	LYS	B	526	17.760	33.382	59.206	1.00	51.67	B	C
	ATOM	3416	CD	LYS	B	526	17.202	31.982	58.953	1.00	55.38	B	C
	ATOM	3417	CE	LYS	B	526	15.692	31.923	59.200	1.00	59.23	B	C
	ATOM	3418	NZ	LYS	B	526	14.957	31.192	58.118	1.00	60.30	B	N
	ATOM	3419	C	LYS	B	526	21.266	34.585	58.131	1.00	38.32	B	C
30	ATOM	3420	O	LYS	B	526	21.943	33.923	57.344	1.00	38.57	B	O
	ATOM	3421	N	SER	B	527	21.344	35.909	58.215	1.00	34.61	B	N
	ATOM	3422	CA	SER	B	527	22.246	36.679	57.366	1.00	32.50	B	C
	ATOM	3423	CB	SER	B	527	22.266	38.136	57.825	1.00	31.39	B	C
	ATOM	3424	OG	SER	B	527	20.951	38.655	57.913	1.00	29.66	B	O
35	ATOM	3425	C	SER	B	527	23.669	36.117	57.359	1.00	31.51	B	C
	ATOM	3426	O	SER	B	527	24.256	35.881	58.415	1.00	36.16	B	O
	ATOM	3427	N	PRO	B	528	24.238	35.889	56.165	1.00	27.05	B	N
	ATOM	3428	CD	PRO	B	528	23.642	36.109	54.837	1.00	26.60	B	C
	ATOM	3429	CA	PRO	B	528	25.601	35.352	56.069	1.00	26.82	B	C
40	ATOM	3430	CB	PRO	B	528	25.823	35.183	54.566	1.00	26.91	B	C
	ATOM	3431	CG	PRO	B	528	24.840	36.106	53.930	1.00	26.61	B	C
	ATOM	3432	C	PRO	B	528	26.614	36.303	56.679	1.00	26.10	B	C
	ATOM	3433	O	PRO	B	528	26.394	37.509	56.695	1.00	26.80	B	O
	ATOM	3434	N	LYS	B	529	27.716	35.761	57.185	1.00	26.21	B	N
45	ATOM	3435	CA	LYS	B	529	28.749	36.595	57.779	1.00	26.56	B	C
	ATOM	3436	CB	LYS	B	529	29.773	35.735	58.524	1.00	26.44	B	C
	ATOM	3437	CG	LYS	B	529	29.170	34.792	59.560	1.00	28.45	B	C
	ATOM	3438	CD	LYS	B	529	28.440	35.541	60.666	1.00	29.76	B	C
	ATOM	3439	CE	LYS	B	529	27.114	34.864	60.998	1.00	33.50	B	C
50	ATOM	3440	NZ	LYS	B	529	27.050	34.424	62.420	1.00	33.70	B	N
	ATOM	3441	C	LYS	B	529	29.418	37.354	56.642	1.00	26.57	B	C
	ATOM	3442	O	LYS	B	529	29.292	36.969	55.482	1.00	29.09	B	O
	ATOM	3443	N	PRO	B	530	30.129	38.447	56.955	1.00	26.82	B	N
	ATOM	3444	CD	PRO	B	530	30.323	38.990	58.310	1.00	25.00	B	C
55	ATOM	3445	CA	PRO	B	530	30.814	39.260	55.942	1.00	27.60	B	C
	ATOM	3446	CB	PRO	B	530	31.663	40.218	56.771	1.00	26.85	B	C
	ATOM	3447	CG	PRO	B	530	30.907	40.349	58.049	1.00	27.09	B	C
	ATOM	3448	C	PRO	B	530	31.654	38.473	54.931	1.00	30.93	B	C
	ATOM	3449	O	PRO	B	530	31.608	38.753	53.725	1.00	32.07	B	O
60	ATOM	3450	N	GLN	B	531	32.421	37.501	55.420	1.00	30.94	B	N
	ATOM	3451	CA	GLN	B	531	33.270	36.689	54.549	1.00	31.39	B	C
	ATOM	3452	CB	GLN	B	531	34.252	35.855	55.379	1.00	31.62	B	C
	ATOM	3453	CG	GLN	B	531	33.589	34.765	56.216	1.00	33.97	B	C
	ATOM	3454	CD	GLN	B	531	33.235	35.232	57.624	1.00	35.00	B	C
65	ATOM	3455	OE1	GLN	B	531	33.287	36.428	57.931	1.00	33.99	B	O
	ATOM	3456	NE2	GLN	B	531	32.873	34.285	58.487	1.00	33.70	B	N
	ATOM	3457	C	GLN	B	531	32.429	35.763	53.681	1.00	28.81	B	C
	ATOM	3458	O	GLN	B	531	32.893	35.287	52.651	1.00	29.84	B	O

	ATOM	3459	N	GLU	B	532	31.196	35.508	54.102	1.00	27.20	B	N
	ATOM	3460	CA	GLU	B	532	30.295	34.639	53.344	1.00	28.06	B	C
	ATOM	3461	CB	GLU	B	532	29.386	33.859	54.292	1.00	28.56	B	C
5	ATOM	3462	CG	GLU	B	532	30.087	32.748	55.061	1.00	37.74	B	C
	ATOM	3463	CD	GLU	B	532	29.373	32.394	56.363	1.00	44.00	B	C
	ATOM	3464	OE1	GLU	B	532	28.227	32.862	56.571	1.00	44.34	B	O
	ATOM	3465	OE2	GLU	B	532	29.960	31.647	57.179	1.00	46.78	B	O
	ATOM	3466	C	GLU	B	532	29.438	35.452	52.372	1.00	28.77	B	C
10	ATOM	3467	O	GLU	B	532	28.743	34.896	51.519	1.00	26.75	B	O
	ATOM	3468	N	TRP	B	533	29.487	36.774	52.510	1.00	27.66	B	N
	ATOM	3469	CA	TRP	B	533	28.725	37.661	51.643	1.00	24.08	B	C
	ATOM	3470	CB	TRP	B	533	28.505	39.009	52.329	1.00	24.73	B	C
	ATOM	3471	CG	TRP	B	533	27.503	39.863	51.624	1.00	24.65	B	C
15	ATOM	3472	CD2	TRP	B	533	26.139	40.081	52.010	1.00	24.36	B	C
	ATOM	3473	CE2	TRP	B	533	25.557	40.914	51.034	1.00	23.05	B	C
	ATOM	3474	CE3	TRP	B	533	25.354	39.649	53.089	1.00	26.11	B	C
	ATOM	3475	CD1	TRP	B	533	27.688	40.557	50.463	1.00	22.13	B	C
	ATOM	3476	NE1	TRP	B	533	26.523	41.190	50.101	1.00	23.27	B	N
20	ATOM	3477	CZ2	TRP	B	533	24.223	41.327	51.099	1.00	23.97	B	C
	ATOM	3478	CZ3	TRP	B	533	24.024	40.060	53.157	1.00	24.84	B	C
	ATOM	3479	CH2	TRP	B	533	23.473	40.890	52.163	1.00	24.39	B	C
	ATOM	3480	C	TRP	B	533	29.499	37.867	50.356	1.00	22.94	B	C
	ATOM	3481	O	TRP	B	533	30.190	38.872	50.193	1.00	20.80	B	O
25	ATOM	3482	N	THR	B	534	29.380	36.908	49.445	1.00	24.93	B	N
	ATOM	3483	CA	THR	B	534	30.086	36.969	48.168	1.00	25.58	B	C
	ATOM	3484	CB	THR	B	534	30.607	35.585	47.784	1.00	24.41	B	C
	ATOM	3485	OG1	THR	B	534	29.518	34.657	47.809	1.00	26.54	B	O
	ATOM	3486	CG2	THR	B	534	31.675	35.122	48.768	1.00	23.45	B	C
30	ATOM	3487	C	THR	B	534	29.230	37.500	47.017	1.00	23.91	B	C
	ATOM	3488	O	THR	B	534	29.752	37.800	45.945	1.00	21.11	B	O
	ATOM	3489	N	LEU	B	535	27.923	37.614	47.237	1.00	25.95	B	N
	ATOM	3490	CA	LEU	B	535	27.021	38.115	46.204	1.00	27.99	B	C
	ATOM	3491	CB	LEU	B	535	25.564	37.853	46.592	1.00	29.58	B	C
35	ATOM	3492	CG	LEU	B	535	25.128	38.219	48.012	1.00	35.55	B	C
	ATOM	3493	CD1	LEU	B	535	23.722	38.789	47.968	1.00	34.40	B	C
	ATOM	3494	CD2	LEU	B	535	25.176	36.982	48.919	1.00	39.00	B	C
	ATOM	3495	C	LEU	B	535	27.244	39.605	45.932	1.00	27.19	B	C
	ATOM	3496	O	LEU	B	535	27.937	40.294	46.681	1.00	28.05	B	O
40	ATOM	3497	N	GLU	B	536	26.659	40.097	44.850	1.00	29.59	B	N
	ATOM	3498	CA	GLU	B	536	26.831	41.492	44.461	1.00	33.34	B	C
	ATOM	3499	CB	GLU	B	536	26.566	41.642	42.963	1.00	36.71	B	C
	ATOM	3500	CG	GLU	B	536	27.679	42.350	42.209	1.00	45.22	B	C
	ATOM	3501	CD	GLU	B	536	27.547	42.204	40.700	1.00	49.84	B	C
45	ATOM	3502	OE1	GLU	B	536	26.906	43.077	40.067	1.00	51.71	B	O
	ATOM	3503	OE2	GLU	B	536	28.083	41.217	40.149	1.00	49.45	B	O
	ATOM	3504	C	GLU	B	536	25.966	42.484	45.226	1.00	30.48	B	C
	ATOM	3505	O	GLU	B	536	26.301	43.664	45.311	1.00	28.73	B	O
	ATOM	3506	N	LYS	B	537	24.855	42.004	45.774	1.00	30.76	B	N
50	ATOM	3507	CA	LYS	B	537	23.929	42.847	46.529	1.00	30.68	B	C
	ATOM	3508	CB	LYS	B	537	22.846	41.984	47.182	1.00	35.47	B	C
	ATOM	3509	CG	LYS	B	537	21.545	41.909	46.404	1.00	41.42	B	C
	ATOM	3510	CD	LYS	B	537	20.841	43.262	46.369	1.00	47.30	B	C
	ATOM	3511	CE	LYS	B	537	19.584	43.214	45.499	1.00	51.32	B	C
55	ATOM	3512	NZ	LYS	B	537	18.965	44.561	45.301	1.00	51.33	B	N
	ATOM	3513	C	LYS	B	537	24.630	43.649	47.617	1.00	28.84	B	C
	ATOM	3514	O	LYS	B	537	25.535	43.144	48.285	1.00	27.96	B	O
	ATOM	3515	N	ASN	B	538	24.222	44.903	47.790	1.00	26.11	B	N
	ATOM	3516	CA	ASN	B	538	24.811	45.729	48.840	1.00	24.48	B	C
60	ATOM	3517	CB	ASN	B	538	24.624	47.219	48.550	1.00	22.50	B	C
	ATOM	3518	CG	ASN	B	538	25.683	48.078	49.221	1.00	21.82	B	C
	ATOM	3519	OD1	ASN	B	538	26.731	47.579	49.637	1.00	19.97	B	O
	ATOM	3520	ND2	ASN	B	538	25.415	49.380	49.327	1.00	18.82	B	N
	ATOM	3521	C	ASN	B	538	24.081	45.368	50.126	1.00	23.84	B	C
65	ATOM	3522	O	ASN	B	538	22.848	45.316	50.151	1.00	22.60	B	O
	ATOM	3523	N	PRO	B	539	24.828	45.089	51.206	1.00	23.09	B	N
	ATOM	3524	CD	PRO	B	539	26.296	45.073	51.332	1.00	22.30	B	C
	ATOM	3525	CA	PRO	B	539	24.165	44.737	52.466	1.00	21.96	B	C
	ATOM	3526	CB	PRO	B	539	25.326	44.480	53.432	1.00	21.38	B	C

	ATOM	3527	CG	PRO	B	539	26.517	44.232	52.554	1.00	20.53	B	C
	ATOM	3528	C	PRO	B	539	23.269	45.881	52.930	1.00	19.85	B	C
	ATOM	3529	O	PRO	B	539	23.456	47.021	52.509	1.00	18.60	B	O
	ATOM	3530	N	SER	B	540	22.296	45.572	53.785	1.00	18.60	B	N
5	ATOM	3531	CA	SER	B	540	21.380	46.583	54.305	1.00	16.03	B	C
	ATOM	3532	CB	SER	B	540	20.262	45.917	55.119	1.00	15.58	B	C
	ATOM	3533	OG	SER	B	540	20.692	45.575	56.423	1.00	18.82	B	O
	ATOM	3534	C	SER	B	540	22.117	47.604	55.168	1.00	15.23	B	C
10	ATOM	3535	O	SER	B	540	23.277	47.409	55.530	1.00	14.29	B	O
	ATOM	3536	N	TYR	B	541	21.435	48.697	55.488	1.00	15.23	B	N
	ATOM	3537	CA	TYR	B	541	22.009	49.758	56.304	1.00	16.19	B	C
	ATOM	3538	CB	TYR	B	541	20.974	50.879	56.487	1.00	17.18	B	C
	ATOM	3539	CG	TYR	B	541	21.405	52.027	57.386	1.00	17.28	B	C
	ATOM	3540	CD1	TYR	B	541	21.232	51.956	58.770	1.00	15.35	B	C
15	ATOM	3541	CE1	TYR	B	541	21.607	53.014	59.601	1.00	15.34	B	C
	ATOM	3542	CD2	TYR	B	541	21.968	53.190	56.850	1.00	14.03	B	C
	ATOM	3543	CE2	TYR	B	541	22.350	54.259	57.671	1.00	12.17	B	C
	ATOM	3544	CZ	TYR	B	541	22.164	54.162	59.047	1.00	15.72	B	C
20	ATOM	3545	OH	TYR	B	541	22.519	55.205	59.869	1.00	12.50	B	O
	ATOM	3546	C	TYR	B	541	22.441	49.207	57.664	1.00	17.66	B	C
	ATOM	3547	O	TYR	B	541	23.540	49.487	58.143	1.00	17.01	B	O
	ATOM	3548	N	THR	B	542	21.568	48.410	58.273	1.00	19.06	B	N
	ATOM	3549	CA	THR	B	542	21.824	47.829	59.588	1.00	18.23	B	C
25	ATOM	3550	CB	THR	B	542	20.555	47.136	60.109	1.00	18.52	B	C
	ATOM	3551	OG1	THR	B	542	19.511	48.111	60.221	1.00	18.24	B	O
	ATOM	3552	CG2	THR	B	542	20.794	46.509	61.472	1.00	19.19	B	C
	ATOM	3553	C	THR	B	542	23.001	46.857	59.600	1.00	18.38	B	C
	ATOM	3554	O	THR	B	542	23.710	46.745	60.602	1.00	17.95	B	O
30	ATOM	3555	N	TYR	B	543	23.202	46.154	58.490	1.00	16.93	B	N
	ATOM	3556	CA	TYR	B	543	24.314	45.220	58.362	1.00	16.68	B	C
	ATOM	3557	CB	TYR	B	543	24.234	44.511	57.009	1.00	17.16	B	C
	ATOM	3558	CG	TYR	B	543	25.124	43.303	56.863	1.00	14.93	B	C
	ATOM	3559	CD1	TYR	B	543	26.446	43.437	56.456	1.00	15.90	B	C
35	ATOM	3560	CE1	TYR	B	543	27.261	42.318	56.264	1.00	19.59	B	C
	ATOM	3561	CD2	TYR	B	543	24.630	42.018	57.081	1.00	18.53	B	C
	ATOM	3562	CE2	TYR	B	543	25.436	40.887	56.893	1.00	20.68	B	C
	ATOM	3563	CZ	TYR	B	543	26.752	41.050	56.480	1.00	19.68	B	C
	ATOM	3564	OH	TYR	B	543	27.553	39.954	56.262	1.00	20.00	B	O
40	ATOM	3565	C	TYR	B	543	25.597	46.045	58.450	1.00	16.46	B	C
	ATOM	3566	O	TYR	B	543	26.523	45.716	59.192	1.00	17.20	B	O
	ATOM	3567	N	TYR	B	544	25.643	47.126	57.683	1.00	16.33	B	N
	ATOM	3568	CA	TYR	B	544	26.798	48.015	57.686	1.00	19.32	B	C
	ATOM	3569	CB	TYR	B	544	26.550	49.202	56.748	1.00	16.57	B	C
45	ATOM	3570	CG	TYR	B	544	27.031	49.034	55.325	1.00	17.46	B	C
	ATOM	3571	CD1	TYR	B	544	26.184	48.529	54.334	1.00	17.00	B	C
	ATOM	3572	CE1	TYR	B	544	26.589	48.471	52.997	1.00	18.05	B	C
	ATOM	3573	CD2	TYR	B	544	28.301	49.469	54.945	1.00	17.93	B	C
	ATOM	3574	CE2	TYR	B	544	28.715	49.414	53.614	1.00	19.86	B	C
50	ATOM	3575	CZ	TYR	B	544	27.855	48.923	52.645	1.00	20.49	B	C
	ATOM	3576	OH	TYR	B	544	28.257	48.920	51.324	1.00	20.58	B	O
	ATOM	3577	C	TYR	B	544	27.004	48.550	59.112	1.00	21.01	B	C
	ATOM	3578	O	TYR	B	544	28.086	48.425	59.697	1.00	23.05	B	O
	ATOM	3579	N	ALA	B	545	25.948	49.156	59.652	1.00	21.73	B	N
55	ATOM	3580	CA	ALA	B	545	25.963	49.739	60.983	1.00	20.34	B	C
	ATOM	3581	CB	ALA	B	545	24.570	50.242	61.343	1.00	21.34	B	C
	ATOM	3582	C	ALA	B	545	26.456	48.781	62.055	1.00	20.95	B	C
	ATOM	3583	O	ALA	B	545	27.325	49.138	62.854	1.00	21.84	B	O
	ATOM	3584	N	TYR	B	546	25.919	47.565	62.086	1.00	19.26	B	N
60	ATOM	3585	CA	TYR	B	546	26.351	46.621	63.107	1.00	18.59	B	C
	ATOM	3586	CB	TYR	B	546	25.603	45.291	63.008	1.00	19.97	B	C
	ATOM	3587	CG	TYR	B	546	26.127	44.287	64.019	1.00	22.12	B	C
	ATOM	3588	CD1	TYR	B	546	25.686	44.314	65.342	1.00	26.12	B	C
	ATOM	3589	CE1	TYR	B	546	26.235	43.468	66.306	1.00	25.63	B	C
65	ATOM	3590	CD2	TYR	B	546	27.128	43.378	63.682	1.00	21.94	B	C
	ATOM	3591	CE2	TYR	B	546	27.684	42.528	64.637	1.00	23.91	B	C
	ATOM	3592	CZ	TYR	B	546	27.234	42.585	65.948	1.00	25.98	B	C
	ATOM	3593	OH	TYR	B	546	27.805	41.785	66.908	1.00	27.63	B	O
	ATOM	3594	C	TYR	B	546	27.845	46.326	63.069	1.00	18.62	B	C

	ATOM	3595	O	TYR	B	546	28.533	46.437	64.082	1.00	17.72	B	O
	ATOM	3596	N	TYR	B	547	28.349	45.947	61.899	1.00	18.97	B	N
	ATOM	3597	CA	TYR	B	547	29.756	45.602	61.770	1.00	16.59	B	C
	ATOM	3598	CB	TYR	B	547	29.984	44.891	60.439	1.00	16.13	B	C
5	ATOM	3599	CG	TYR	B	547	29.488	43.468	60.507	1.00	13.73	B	C
	ATOM	3600	CD1	TYR	B	547	30.179	42.509	61.244	1.00	12.30	B	C
	ATOM	3601	CE1	TYR	B	547	29.690	41.219	61.383	1.00	13.15	B	C
	ATOM	3602	CD2	TYR	B	547	28.293	43.096	59.903	1.00	10.74	B	C
	ATOM	3603	CE2	TYR	B	547	27.796	41.804	60.037	1.00	12.96	B	C
10	ATOM	3604	CZ	TYR	B	547	28.500	40.872	60.779	1.00	13.29	B	C
	ATOM	3605	OH	TYR	B	547	28.024	39.589	60.912	1.00	15.26	B	O
	ATOM	3606	C	TYR	B	547	30.720	46.755	61.958	1.00	16.86	B	C
	ATOM	3607	O	TYR	B	547	31.894	46.544	62.280	1.00	17.63	B	O
	ATOM	3608	N	MET	B	548	30.232	47.973	61.770	1.00	16.37	B	N
15	ATOM	3609	CA	MET	B	548	31.072	49.139	61.973	1.00	18.11	B	C
	ATOM	3610	CB	MET	B	548	30.490	50.342	61.236	1.00	18.30	B	C
	ATOM	3611	CG	MET	B	548	31.044	50.501	59.835	1.00	19.81	B	C
	ATOM	3612	SD	MET	B	548	30.693	52.116	59.156	1.00	32.45	B	S
	ATOM	3613	CE	MET	B	548	32.084	53.075	59.789	1.00	24.56	B	C
20	ATOM	3614	C	MET	B	548	31.109	49.395	63.481	1.00	19.79	B	C
	ATOM	3615	O	MET	B	548	32.146	49.741	64.044	1.00	19.28	B	O
	ATOM	3616	N	TYR	B	549	29.969	49.203	64.137	1.00	20.86	B	N
	ATOM	3617	CA	TYR	B	549	29.889	49.396	65.576	1.00	19.49	B	C
	ATOM	3618	CB	TYR	B	549	28.447	49.223	66.059	1.00	19.22	B	C
25	ATOM	3619	CG	TYR	B	549	28.320	49.059	67.565	1.00	19.24	B	C
	ATOM	3620	CD1	TYR	B	549	28.301	50.173	68.403	1.00	18.57	B	C
	ATOM	3621	CE1	TYR	B	549	28.197	50.034	69.789	1.00	18.15	B	C
	ATOM	3622	CD2	TYR	B	549	28.233	47.791	68.151	1.00	15.94	B	C
	ATOM	3623	CE2	TYR	B	549	28.129	47.643	69.534	1.00	16.60	B	C
30	ATOM	3624	CZ	TYR	B	549	28.113	48.771	70.347	1.00	18.54	B	C
	ATOM	3625	OH	TYR	B	549	28.016	48.642	71.718	1.00	19.16	B	O
	ATOM	3626	C	TYR	B	549	30.775	48.367	66.262	1.00	19.65	B	C
	ATOM	3627	O	TYR	B	549	31.571	48.701	67.139	1.00	20.48	B	O
	ATOM	3628	N	ALA	B	550	30.623	47.111	65.849	1.00	20.12	B	N
35	ATOM	3629	CA	ALA	B	550	31.375	45.998	66.420	1.00	18.54	B	C
	ATOM	3630	CB	ALA	B	550	31.016	44.709	65.688	1.00	16.58	B	C
	ATOM	3631	C	ALA	B	550	32.886	46.215	66.400	1.00	18.28	B	C
	ATOM	3632	O	ALA	B	550	33.555	46.079	67.425	1.00	16.51	B	O
	ATOM	3633	N	ASN	B	551	33.426	46.554	65.236	1.00	18.75	B	N
40	ATOM	3634	CA	ASN	B	551	34.861	46.778	65.111	1.00	18.46	B	C
	ATOM	3635	CB	ASN	B	551	35.243	46.902	63.634	1.00	18.01	B	C
	ATOM	3636	CG	ASN	B	551	35.409	45.552	62.960	1.00	17.28	B	C
	ATOM	3637	OD1	ASN	B	551	34.524	45.098	62.236	1.00	16.26	B	O
	ATOM	3638	ND2	ASN	B	551	36.546	44.902	63.197	1.00	13.84	B	N
45	ATOM	3639	C	ASN	B	551	35.309	48.026	65.873	1.00	17.29	B	C
	ATOM	3640	O	ASN	B	551	36.386	48.049	66.456	1.00	19.02	B	O
	ATOM	3641	N	ILE	B	552	34.476	49.061	65.865	1.00	19.05	B	N
	ATOM	3642	CA	ILE	B	552	34.791	50.306	66.558	1.00	17.24	B	C
	ATOM	3643	CB	ILE	B	552	33.754	51.416	66.212	1.00	17.35	B	C
50	ATOM	3644	CG2	ILE	B	552	33.881	52.593	67.185	1.00	12.67	B	C
	ATOM	3645	CG1	ILE	B	552	33.985	51.907	64.774	1.00	16.81	B	C
	ATOM	3646	CD1	ILE	B	552	33.045	53.012	64.328	1.00	13.53	B	C
	ATOM	3647	C	ILE	B	552	34.819	50.067	68.066	1.00	18.52	B	C
	ATOM	3648	O	ILE	B	552	35.665	50.616	68.780	1.00	17.63	B	O
55	ATOM	3649	N	MET	B	553	33.900	49.236	68.547	1.00	18.36	B	N
	ATOM	3650	CA	MET	B	553	33.835	48.926	69.971	1.00	19.52	B	C
	ATOM	3651	CB	MET	B	553	32.642	48.019	70.268	1.00	18.86	B	C
	ATOM	3652	CG	MET	B	553	32.664	47.463	71.673	1.00	20.87	B	C
	ATOM	3653	SD	MET	B	553	31.636	46.019	71.877	1.00	25.44	B	S
60	ATOM	3654	CE	MET	B	553	32.822	44.893	72.580	1.00	27.55	B	C
	ATOM	3655	C	MET	B	553	35.113	48.243	70.448	1.00	20.15	B	C
	ATOM	3656	O	MET	B	553	35.712	48.644	71.448	1.00	21.53	B	O
	ATOM	3657	N	VAL	B	554	35.517	47.198	69.733	1.00	19.59	B	N
	ATOM	3658	CA	VAL	B	554	36.723	46.459	70.074	1.00	19.21	B	C
65	ATOM	3659	CB	VAL	B	554	36.910	45.248	69.129	1.00	20.35	B	C
	ATOM	3660	CG1	VAL	B	554	38.131	44.429	69.555	1.00	22.79	B	C
	ATOM	3661	CG2	VAL	B	554	35.658	44.381	69.141	1.00	12.71	B	C
	ATOM	3662	C	VAL	B	554	37.922	47.398	69.953	1.00	19.82	B	C

	ATOM	3663	O	VAL	B	554	38.754	47.489	70.854	1.00	21.99	B	O
	ATOM	3664	N	LEU	B	555	38.002	48.112	68.839	1.00	19.23	B	N
	ATOM	3665	CA	LEU	B	555	39.100	49.047	68.626	1.00	19.76	B	C
	ATOM	3666	CB	LEU	B	555	38.893	49.804	67.305	1.00	17.30	B	C
5	ATOM	3667	CG	LEU	B	555	39.831	50.961	66.937	1.00	15.22	B	C
	ATOM	3668	CD1	LEU	B	555	41.255	50.462	66.781	1.00	12.49	B	C
	ATOM	3669	CD2	LEU	B	555	39.349	51.595	65.640	1.00	12.74	B	C
	ATOM	3670	C	LEU	B	555	39.184	50.045	69.782	1.00	20.30	B	C
10	ATOM	3671	O	LEU	B	555	40.272	50.446	70.194	1.00	17.85	B	O
	ATOM	3672	N	ASN	B	556	38.026	50.443	70.302	1.00	19.94	B	N
	ATOM	3673	CA	ASN	B	556	37.978	51.411	71.386	1.00	20.05	B	C
	ATOM	3674	CB	ASN	B	556	36.553	51.957	71.525	1.00	20.14	B	C
	ATOM	3675	CG	ASN	B	556	36.293	53.160	70.615	1.00	20.72	B	C
	ATOM	3676	OD1	ASN	B	556	37.220	53.723	70.019	1.00	17.57	B	O
15	ATOM	3677	ND2	ASN	B	556	35.028	53.561	70.511	1.00	19.17	B	N
	ATOM	3678	C	ASN	B	556	38.467	50.842	72.719	1.00	20.06	B	C
	ATOM	3679	O	ASN	B	556	39.144	51.531	73.479	1.00	17.15	B	O
	ATOM	3680	N	SER	B	557	38.128	49.585	72.995	1.00	22.57	B	N
20	ATOM	3681	CA	SER	B	557	38.556	48.938	74.232	1.00	25.43	B	C
	ATOM	3682	CB	SER	B	557	37.980	47.520	74.329	1.00	25.65	B	C
	ATOM	3683	OG	SER	B	557	36.565	47.527	74.262	1.00	28.24	B	O
	ATOM	3684	C	SER	B	557	40.079	48.859	74.247	1.00	26.49	B	C
	ATOM	3685	O	SER	B	557	40.725	49.184	75.248	1.00	29.87	B	O
	ATOM	3686	N	LEU	B	558	40.643	48.425	73.126	1.00	24.95	B	N
25	ATOM	3687	CA	LEU	B	558	42.084	48.288	72.982	1.00	22.99	B	C
	ATOM	3688	CB	LEU	B	558	42.403	47.669	71.621	1.00	25.68	B	C
	ATOM	3689	CG	LEU	B	558	43.875	47.507	71.244	1.00	28.42	B	C
	ATOM	3690	CD1	LEU	B	558	44.526	46.471	72.144	1.00	28.63	B	C
	ATOM	3691	CD2	LEU	B	558	43.978	47.087	69.787	1.00	27.76	B	C
30	ATOM	3692	C	LEU	B	558	42.832	49.606	73.141	1.00	22.88	B	C
	ATOM	3693	O	LEU	B	558	43.805	49.678	73.880	1.00	26.62	B	O
	ATOM	3694	N	ARG	B	559	42.382	50.647	72.453	1.00	22.32	B	N
	ATOM	3695	CA	ARG	B	559	43.033	51.953	72.527	1.00	22.79	B	C
	ATOM	3696	CB	ARG	B	559	42.451	52.889	71.470	1.00	21.84	B	C
35	ATOM	3697	CG	ARG	B	559	43.146	52.788	70.116	1.00	20.93	B	C
	ATOM	3698	CD	ARG	B	559	42.503	53.710	69.093	1.00	17.83	B	C
	ATOM	3699	NE	ARG	B	559	43.206	54.981	68.971	1.00	17.24	B	N
	ATOM	3700	CZ	ARG	B	559	44.377	55.132	68.361	1.00	15.20	B	C
	ATOM	3701	NH1	ARG	B	559	44.984	54.089	67.816	1.00	14.49	B	N
40	ATOM	3702	NH2	ARG	B	559	44.933	56.329	68.279	1.00	11.89	B	N
	ATOM	3703	C	ARG	B	559	42.903	52.606	73.896	1.00	26.31	B	C
	ATOM	3704	O	ARG	B	559	43.763	53.386	74.308	1.00	27.24	B	O
	ATOM	3705	N	LYS	B	560	41.815	52.298	74.591	1.00	29.53	B	N
	ATOM	3706	CA	LYS	B	560	41.579	52.845	75.917	1.00	30.55	B	C
45	ATOM	3707	CB	LYS	B	560	40.207	52.402	76.437	1.00	34.05	B	C
	ATOM	3708	CG	LYS	B	560	39.914	52.801	77.881	1.00	36.43	B	C
	ATOM	3709	CD	LYS	B	560	39.179	54.136	77.957	1.00	39.20	B	C
	ATOM	3710	CE	LYS	B	560	38.638	54.401	79.368	1.00	40.37	B	C
	ATOM	3711	NZ	LYS	B	560	37.846	55.670	79.481	1.00	34.49	B	N
50	ATOM	3712	C	LYS	B	560	42.669	52.312	76.824	1.00	32.01	B	C
	ATOM	3713	O	LYS	B	560	43.330	53.070	77.534	1.00	33.04	B	O
	ATOM	3714	N	GLU	B	561	42.858	50.998	76.780	1.00	32.51	B	N
	ATOM	3715	CA	GLU	B	561	43.870	50.336	77.587	1.00	34.59	B	C
	ATOM	3716	CB	GLU	B	561	43.807	48.828	77.367	1.00	37.66	B	C
55	ATOM	3717	CG	GLU	B	561	42.951	48.099	78.383	1.00	45.80	B	C
	ATOM	3718	CD	GLU	B	561	43.015	46.594	78.209	1.00	53.50	B	C
	ATOM	3719	OE1	GLU	B	561	44.120	46.072	77.939	1.00	57.21	B	O
	ATOM	3720	OE2	GLU	B	561	41.963	45.929	78.338	1.00	56.06	B	O
	ATOM	3721	C	GLU	B	561	45.288	50.833	77.316	1.00	32.44	B	C
60	ATOM	3722	O	GLU	B	561	46.116	50.852	78.223	1.00	37.16	B	O
	ATOM	3723	N	ARG	B	562	45.574	51.228	76.077	1.00	28.99	B	N
	ATOM	3724	CA	ARG	B	562	46.905	51.720	75.733	1.00	26.01	B	C
	ATOM	3725	CB	ARG	B	562	47.178	51.525	74.237	1.00	24.04	B	C
	ATOM	3726	CG	ARG	B	562	46.985	50.091	73.743	1.00	24.32	B	C
65	ATOM	3727	CD	ARG	B	562	48.108	49.652	72.807	1.00	25.33	B	C
	ATOM	3728	NE	ARG	B	562	49.430	49.840	73.403	1.00	27.03	B	N
	ATOM	3729	CZ	ARG	B	562	50.578	49.781	72.735	1.00	28.27	B	C
	ATOM	3730	NH1	ARG	B	562	50.589	49.539	71.433	1.00	30.18	B	N

	ATOM	3731	NH2	ARG	B	562	51.722	49.975	73.371	1.00	32.38	B	N
	ATOM	3732	C	ARG	B	562	47.035	53.196	76.091	1.00	27.63	B	C
	ATOM	3733	O	ARG	B	562	48.092	53.798	75.916	1.00	28.05	B	O
5	ATOM	3734	N	GLY	B	563	45.957	53.778	76.608	1.00	26.65	B	N
	ATOM	3735	CA	GLY	B	563	45.988	55.184	76.955	1.00	25.39	B	C
	ATOM	3736	C	GLY	B	563	45.908	56.039	75.702	1.00	26.93	B	C
	ATOM	3737	O	GLY	B	563	46.378	57.186	75.680	1.00	27.01	B	O
	ATOM	3738	N	MET	B	564	45.308	55.477	74.652	1.00	26.61	B	N
10	ATOM	3739	CA	MET	B	564	45.154	56.175	73.377	1.00	24.20	B	C
	ATOM	3740	CB	MET	B	564	45.471	55.235	72.214	1.00	23.14	B	C
	ATOM	3741	CG	MET	B	564	46.943	55.130	71.862	1.00	25.89	B	C
	ATOM	3742	SD	MET	B	564	47.284	53.634	70.912	1.00	24.82	B	S
	ATOM	3743	CE	MET	B	564	48.865	54.024	70.244	1.00	24.91	B	C
	ATOM	3744	C	MET	B	564	43.727	56.681	73.236	1.00	23.51	B	C
15	ATOM	3745	O	MET	B	564	42.831	56.225	73.943	1.00	25.15	B	O
	ATOM	3746	N	ASN	B	565	43.523	57.616	72.313	1.00	23.00	B	N
	ATOM	3747	CA	ASN	B	565	42.207	58.203	72.069	1.00	21.30	B	C
	ATOM	3748	CB	ASN	B	565	42.340	59.430	71.152	1.00	22.09	B	C
20	ATOM	3749	CG	ASN	B	565	42.976	59.098	69.803	1.00	22.65	B	C
	ATOM	3750	OD1	ASN	B	565	44.084	58.555	69.736	1.00	24.04	B	O
	ATOM	3751	ND2	ASN	B	565	42.276	59.429	68.724	1.00	18.67	B	N
	ATOM	3752	C	ASN	B	565	41.236	57.199	71.451	1.00	20.53	B	C
	ATOM	3753	O	ASN	B	565	41.653	56.276	70.754	1.00	20.58	B	O
25	ATOM	3754	N	THR	B	566	39.943	57.381	71.718	1.00	18.63	B	N
	ATOM	3755	CA	THR	B	566	38.906	56.502	71.189	1.00	16.48	B	C
	ATOM	3756	CB	THR	B	566	37.963	56.011	72.306	1.00	14.84	B	C
	ATOM	3757	OG1	THR	B	566	37.668	57.093	73.195	1.00	17.79	B	O
	ATOM	3758	CG2	THR	B	566	38.609	54.885	73.083	1.00	14.41	B	C
30	ATOM	3759	C	THR	B	566	38.092	57.261	70.139	1.00	14.16	B	C
	ATOM	3760	O	THR	B	566	38.233	58.470	70.011	1.00	16.37	B	O
	ATOM	3761	N	PHE	B	567	37.246	56.552	69.394	1.00	12.07	B	N
	ATOM	3762	CA	PHE	B	567	36.435	57.168	68.339	1.00	12.54	B	C
	ATOM	3763	CB	PHE	B	567	36.792	56.583	66.965	1.00	10.57	B	C
35	ATOM	3764	CG	PHE	B	567	38.257	56.364	66.756	1.00	9.81	B	C
	ATOM	3765	CD1	PHE	B	567	39.097	57.429	66.461	1.00	6.57	B	C
	ATOM	3766	CD2	PHE	B	567	38.801	55.089	66.863	1.00	10.41	B	C
	ATOM	3767	CE1	PHE	B	567	40.462	57.231	66.276	1.00	7.34	B	C
	ATOM	3768	CE2	PHE	B	567	40.172	54.885	66.681	1.00	11.95	B	C
40	ATOM	3769	CZ	PHE	B	567	41.001	55.962	66.386	1.00	3.35	B	C
	ATOM	3770	C	PHE	B	567	34.941	56.974	68.540	1.00	12.78	B	C
	ATOM	3771	O	PHE	B	567	34.511	55.987	69.137	1.00	12.93	B	O
	ATOM	3772	N	LEU	B	568	34.157	57.914	68.023	1.00	12.12	B	N
	ATOM	3773	CA	LEU	B	568	32.705	57.839	68.123	1.00	12.63	B	C
45	ATOM	3774	CB	LEU	B	568	32.103	59.200	68.485	1.00	11.77	B	C
	ATOM	3775	CG	LEU	B	568	32.652	60.015	69.658	1.00	10.91	B	C
	ATOM	3776	CD1	LEU	B	568	31.911	61.336	69.716	1.00	7.13	B	C
	ATOM	3777	CD2	LEU	B	568	32.481	59.263	70.962	1.00	9.16	B	C
	ATOM	3778	C	LEU	B	568	32.163	57.425	66.768	1.00	12.66	B	C
50	ATOM	3779	O	LEU	B	568	32.828	57.597	65.751	1.00	13.06	B	O
	ATOM	3780	N	PHE	B	569	30.949	56.885	66.764	1.00	13.61	B	N
	ATOM	3781	CA	PHE	B	569	30.279	56.456	65.539	1.00	14.13	B	C
	ATOM	3782	CB	PHE	B	569	29.783	55.010	65.706	1.00	15.11	B	C
	ATOM	3783	CG	PHE	B	569	29.129	54.422	64.477	1.00	11.99	B	C
55	ATOM	3784	CD1	PHE	B	569	29.691	54.583	63.217	1.00	12.63	B	C
	ATOM	3785	CD2	PHE	B	569	27.944	53.695	64.591	1.00	10.91	B	C
	ATOM	3786	CE1	PHE	B	569	29.075	54.026	62.082	1.00	15.04	B	C
	ATOM	3787	CE2	PHE	B	569	27.324	53.139	63.471	1.00	11.12	B	C
	ATOM	3788	CZ	PHE	B	569	27.890	53.303	62.216	1.00	12.17	B	C
60	ATOM	3789	C	PHE	B	569	29.108	57.424	65.335	1.00	16.39	B	C
	ATOM	3790	O	PHE	B	569	28.132	57.396	66.084	1.00	16.15	B	O
	ATOM	3791	N	ARG	B	570	29.226	58.290	64.328	1.00	17.94	B	N
	ATOM	3792	CA	ARG	B	570	28.206	59.296	64.006	1.00	16.06	B	C
	ATOM	3793	CB	ARG	B	570	28.776	60.697	64.268	1.00	14.01	B	C
65	ATOM	3794	CG	ARG	B	570	29.535	60.818	65.585	1.00	12.35	B	C
	ATOM	3795	CD	ARG	B	570	30.416	62.057	65.645	1.00	12.00	B	C
	ATOM	3796	NE	ARG	B	570	29.720	63.281	65.250	1.00	8.77	B	N
	ATOM	3797	CZ	ARG	B	570	30.286	64.486	65.241	1.00	9.76	B	C
	ATOM	3798	NH1	ARG	B	570	31.555	64.637	65.608	1.00	10.20	B	N

	ATOM	3799	NH2	ARG	B	570	29.592	65.542	64.841	1.00	7.87	B	N
	ATOM	3800	C	ARG	B	570	27.803	59.173	62.538	1.00	14.45	B	C
	ATOM	3801	O	ARG	B	570	28.226	59.967	61.701	1.00	16.65	B	O
	ATOM	3802	N	PRO	B	571	26.944	58.201	62.209	1.00	13.71	B	N
5	ATOM	3803	CD	PRO	B	571	26.285	57.235	63.106	1.00	12.57	B	C
	ATOM	3804	CA	PRO	B	571	26.523	58.009	60.817	1.00	12.77	B	C
	ATOM	3805	CB	PRO	B	571	26.076	56.557	60.792	1.00	9.84	B	C
	ATOM	3806	CG	PRO	B	571	25.461	56.379	62.146	1.00	12.27	B	C
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10	ATOM	3807	C	PRO	B	571	25.415	58.924	60.311	1.00	15.07	B	C
	ATOM	3808	O	PRO	B	571	24.749	59.617	61.088	1.00	12.63	B	O
	ATOM	3809	N	HIS	B	572	25.243	58.926	58.989	1.00	13.72	B	N
	ATOM	3810	CA	HIS	B	572	24.181	59.690	58.360	1.00	13.68	B	C
	ATOM	3811	CB	HIS	B	572	24.387	59.774	56.849	1.00	14.88	B	C
	ATOM	3812	CG	HIS	B	572	25.239	60.922	56.413	1.00	12.47	B	C
15	ATOM	3813	CD2	HIS	B	572	25.070	61.828	55.420	1.00	12.06	B	C
	ATOM	3814	ND1	HIS	B	572	26.448	61.222	57.008	1.00	10.08	B	N
	ATOM	3815	CE1	HIS	B	572	26.985	62.264	56.400	1.00	13.82	B	C
	ATOM	3816	NE2	HIS	B	572	26.168	62.651	55.431	1.00	15.15	B	N
	ATOM	3817	C	HIS	B	572	23.012	58.768	58.650	1.00	13.11	B	C
20	ATOM	3818	O	HIS	B	572	23.152	57.555	58.516	1.00	12.49	B	O
	ATOM	3819	N	CYS	B	573	21.871	59.316	59.055	1.00	12.08	B	N
	ATOM	3820	CA	CYS	B	573	20.739	58.459	59.366	1.00	12.50	B	C
	ATOM	3821	CB	CYS	B	573	20.914	57.857	60.768	1.00	11.12	B	C
	ATOM	3822	SG	CYS	B	573	19.701	56.585	61.228	1.00	18.20	B	S
25	ATOM	3823	C	CYS	B	573	19.425	59.210	59.290	1.00	12.53	B	C
	ATOM	3824	O	CYS	B	573	19.326	60.363	59.714	1.00	10.82	B	O
	ATOM	3825	N	GLY	B	574	18.423	58.548	58.724	1.00	12.14	B	N
	ATOM	3826	CA	GLY	B	574	17.105	59.143	58.610	1.00	13.87	B	C
	ATOM	3827	C	GLY	B	574	16.888	60.177	57.527	1.00	15.39	B	C
30	ATOM	3828	O	GLY	B	574	15.848	60.836	57.519	1.00	17.25	B	O
	ATOM	3829	N	GLU	B	575	17.850	60.355	56.626	1.00	15.55	B	N
	ATOM	3830	CA	GLU	B	575	17.667	61.323	55.549	1.00	14.55	B	C
	ATOM	3831	CB	GLU	B	575	18.940	61.474	54.723	1.00	15.22	B	C
	ATOM	3832	CG	GLU	B	575	18.835	62.542	53.649	1.00	17.86	B	C
35	ATOM	3833	CD	GLU	B	575	20.136	62.725	52.895	1.00	20.91	B	C
	ATOM	3834	OE1	GLU	B	575	20.390	63.843	52.391	1.00	23.60	B	O
	ATOM	3835	OE2	GLU	B	575	20.910	61.748	52.809	1.00	18.97	B	O
	ATOM	3836	C	GLU	B	575	16.564	60.773	54.668	1.00	16.70	B	C
	ATOM	3837	O	GLU	B	575	15.809	61.525	54.062	1.00	17.63	B	O
40	ATOM	3838	N	VAL	B	576	16.500	59.445	54.605	1.00	16.96	B	N
	ATOM	3839	CA	VAL	B	576	15.500	58.719	53.836	1.00	20.90	B	C
	ATOM	3840	CB	VAL	B	576	15.602	58.986	52.328	1.00	24.67	B	C
	ATOM	3841	CG1	VAL	B	576	14.697	60.165	51.947	1.00	33.46	B	C
	ATOM	3842	CG2	VAL	B	576	17.039	59.247	51.941	1.00	28.82	B	C
45	ATOM	3843	C	VAL	B	576	15.690	57.232	54.057	1.00	21.32	B	C
	ATOM	3844	O	VAL	B	576	16.607	56.817	54.761	1.00	23.89	B	O
	ATOM	3845	N	GLY	B	577	14.823	56.430	53.451	1.00	20.23	B	N
	ATOM	3846	CA	GLY	B	577	14.921	54.995	53.614	1.00	17.38	B	C
	ATOM	3847	C	GLY	B	577	13.943	54.533	54.672	1.00	19.11	B	C
50	ATOM	3848	O	GLY	B	577	13.025	55.264	55.032	1.00	16.11	B	O
	ATOM	3849	N	ALA	B	578	14.147	53.321	55.174	1.00	18.93	B	N
	ATOM	3850	CA	ALA	B	578	13.280	52.752	56.195	1.00	21.02	B	C
	ATOM	3851	CB	ALA	B	578	13.462	51.241	56.228	1.00	18.20	B	C
	ATOM	3852	C	ALA	B	578	13.540	53.342	57.581	1.00	22.14	B	C
55	ATOM	3853	O	ALA	B	578	14.634	53.824	57.866	1.00	21.78	B	O
	ATOM	3854	N	LEU	B	579	12.528	53.292	58.442	1.00	23.91	B	N
	ATOM	3855	CA	LEU	B	579	12.653	53.812	59.805	1.00	26.36	B	C
	ATOM	3856	CB	LEU	B	579	11.307	53.741	60.534	1.00	25.79	B	C
	ATOM	3857	CG	LEU	B	579	10.350	54.917	60.346	1.00	26.00	B	C
60	ATOM	3858	CD1	LEU	B	579	8.961	54.508	60.806	1.00	26.62	B	C
	ATOM	3859	CD2	LEU	B	579	10.850	56.119	61.130	1.00	26.99	B	C
	ATOM	3860	C	LEU	B	579	13.681	53.004	60.588	1.00	25.77	B	C
	ATOM	3861	O	LEU	B	579	14.369	53.534	61.464	1.00	27.11	B	O
	ATOM	3862	N	THR	B	580	13.784	51.719	60.261	1.00	22.64	B	N
65	ATOM	3863	CA	THR	B	580	14.719	50.837	60.944	1.00	23.86	B	C
	ATOM	3864	CB	THR	B	580	14.779	49.441	60.278	1.00	25.29	B	C
	ATOM	3865	OG1	THR	B	580	15.496	49.525	59.040	1.00	34.37	B	O
	ATOM	3866	CG2	THR	B	580	13.383	48.918	60.007	1.00	25.91	B	C

	ATOM	3867	C	THR	B	580	16.130	51.397	61.017	1.00	20.98	B	C
	ATOM	3868	O	THR	B	580	16.946	50.908	61.788	1.00	23.94	B	O
	ATOM	3869	N	HIS	B	581	16.421	52.421	60.220	1.00	21.10	B	N
5	ATOM	3870	CA	HIS	B	581	17.752	53.033	60.218	1.00	17.71	B	C
	ATOM	3871	CB	HIS	B	581	17.930	53.975	59.019	1.00	16.67	B	C
	ATOM	3872	CG	HIS	B	581	17.896	53.292	57.692	1.00	14.88	B	C
	ATOM	3873	CD2	HIS	B	581	17.513	52.043	57.337	1.00	15.90	B	C
	ATOM	3874	ND1	HIS	B	581	18.278	53.919	56.529	1.00	18.27	B	N
10	ATOM	3875	CE1	HIS	B	581	18.132	53.089	55.513	1.00	18.05	B	C
	ATOM	3876	NE2	HIS	B	581	17.669	51.943	55.976	1.00	16.96	B	N
	ATOM	3877	C	HIS	B	581	17.955	53.841	61.489	1.00	18.09	B	C
	ATOM	3878	O	HIS	B	581	19.049	53.863	62.051	1.00	19.06	B	O
	ATOM	3879	N	LEU	B	582	16.898	54.519	61.930	1.00	16.23	B	N
15	ATOM	3880	CA	LEU	B	582	16.972	55.348	63.127	1.00	15.61	B	C
	ATOM	3881	CB	LEU	B	582	15.788	56.311	63.163	1.00	12.21	B	C
	ATOM	3882	CG	LEU	B	582	15.908	57.402	62.094	1.00	12.31	B	C
	ATOM	3883	CD1	LEU	B	582	14.535	57.865	61.686	1.00	12.00	B	C
	ATOM	3884	CD2	LEU	B	582	16.741	58.566	62.622	1.00	8.84	B	C
20	ATOM	3885	C	LEU	B	582	16.991	54.478	64.372	1.00	16.10	B	C
	ATOM	3886	O	LEU	B	582	17.597	54.820	65.383	1.00	15.14	B	O
	ATOM	3887	N	MET	B	583	16.326	53.338	64.278	1.00	17.87	B	N
	ATOM	3888	CA	MET	B	583	16.266	52.399	65.375	1.00	18.05	B	C
	ATOM	3889	CB	MET	B	583	15.279	51.285	65.030	1.00	20.16	B	C
25	ATOM	3890	CG	MET	B	583	15.176	50.201	66.077	1.00	26.64	B	C
	ATOM	3891	SD	MET	B	583	15.626	48.591	65.416	1.00	37.55	B	S
	ATOM	3892	CE	MET	B	583	17.356	48.531	65.860	1.00	36.29	B	C
	ATOM	3893	C	MET	B	583	17.657	51.825	65.624	1.00	15.75	B	C
	ATOM	3894	O	MET	B	583	18.116	51.763	66.757	1.00	16.68	B	O
30	ATOM	3895	N	THR	B	584	18.330	51.419	64.554	1.00	14.69	B	N
	ATOM	3896	CA	THR	B	584	19.670	50.847	64.650	1.00	11.48	B	C
	ATOM	3897	CB	THR	B	584	20.112	50.293	63.270	1.00	12.21	B	C
	ATOM	3898	OG1	THR	B	584	19.438	49.058	63.018	1.00	10.87	B	O
	ATOM	3899	CG2	THR	B	584	21.611	50.049	63.223	1.00	11.68	B	C
35	ATOM	3900	C	THR	B	584	20.687	51.879	65.156	1.00	12.12	B	C
	ATOM	3901	O	THR	B	584	21.663	51.531	65.825	1.00	11.76	B	O
	ATOM	3902	N	ALA	B	585	20.458	53.150	64.833	1.00	11.70	B	N
	ATOM	3903	CA	ALA	B	585	21.351	54.217	65.268	1.00	8.50	B	C
40	ATOM	3904	CB	ALA	B	585	21.134	55.471	64.429	1.00	6.65	B	C
	ATOM	3905	C	ALA	B	585	21.088	54.511	66.739	1.00	9.30	B	C
	ATOM	3906	O	ALA	B	585	21.974	54.958	67.456	1.00	9.75	B	O
	ATOM	3907	N	PHE	B	586	19.865	54.260	67.190	1.00	11.28	B	N
	ATOM	3908	CA	PHE	B	586	19.525	54.480	68.590	1.00	13.96	B	C
	ATOM	3909	CB	PHE	B	586	18.033	54.215	68.829	1.00	12.96	B	C
45	ATOM	3910	CG	PHE	B	586	17.633	54.218	70.288	1.00	16.07	B	C
	ATOM	3911	CD1	PHE	B	586	17.399	55.414	70.960	1.00	12.74	B	C
	ATOM	3912	CD2	PHE	B	586	17.497	53.018	70.993	1.00	14.04	B	C
	ATOM	3913	CE1	PHE	B	586	17.040	55.413	72.306	1.00	11.61	B	C
	ATOM	3914	CE2	PHE	B	586	17.137	53.009	72.340	1.00	11.09	B	C
50	ATOM	3915	CZ	PHE	B	586	16.908	54.206	72.996	1.00	12.94	B	C
	ATOM	3916	C	PHE	B	586	20.373	53.523	69.437	1.00	16.59	B	C
	ATOM	3917	O	PHE	B	586	20.728	53.839	70.579	1.00	15.18	B	O
	ATOM	3918	N	MET	B	587	20.701	52.367	68.856	1.00	14.97	B	N
	ATOM	3919	CA	MET	B	587	21.505	51.340	69.519	1.00	16.05	B	C
55	ATOM	3920	CB	MET	B	587	21.173	49.942	68.970	1.00	11.83	B	C
	ATOM	3921	CG	MET	B	587	19.740	49.483	69.099	1.00	15.20	B	C
	ATOM	3922	SD	MET	B	587	19.514	47.801	68.442	1.00	20.51	B	S
	ATOM	3923	CE	MET	B	587	20.743	46.876	69.421	1.00	13.68	B	C
	ATOM	3924	C	MET	B	587	23.019	51.503	69.366	1.00	16.84	B	C
	ATOM	3925	O	MET	B	587	23.773	51.159	70.278	1.00	22.61	B	O
60	ATOM	3926	N	THR	B	588	23.462	52.028	68.224	1.00	13.80	B	N
	ATOM	3927	CA	THR	B	588	24.894	52.112	67.933	1.00	12.75	B	C
	ATOM	3928	CB	THR	B	588	25.197	51.340	66.637	1.00	12.97	B	C
	ATOM	3929	OG1	THR	B	588	24.428	51.911	65.572	1.00	16.10	B	O
65	ATOM	3930	CG2	THR	B	588	24.819	49.865	66.770	1.00	8.95	B	C
	ATOM	3931	C	THR	B	588	25.619	53.442	67.790	1.00	11.89	B	C
	ATOM	3932	O	THR	B	588	26.856	53.474	67.836	1.00	11.92	B	O
	ATOM	3933	N	ALA	B	589	24.895	54.539	67.616	1.00	11.12	B	N
	ATOM	3934	CA	ALA	B	589	25.582	55.809	67.403	1.00	11.41	B	C

	ATOM	3935	CB	ALA	B	589	25.077	56.426	66.108	1.00	11.17	B	C
	ATOM	3936	C	ALA	B	589	25.544	56.850	68.512	1.00	9.92	B	C
	ATOM	3937	O	ALA	B	589	24.531	57.030	69.184	1.00	12.36	B	O
	ATOM	3938	N	ASP	B	590	26.661	57.542	68.688	1.00	11.28	B	N
5	ATOM	3939	CA	ASP	B	590	26.761	58.596	69.687	1.00	14.59	B	C
	ATOM	3940	CB	ASP	B	590	28.191	59.145	69.727	1.00	15.55	B	C
	ATOM	3941	CG	ASP	B	590	28.390	60.190	70.816	1.00	19.19	B	C
	ATOM	3942	OD1	ASP	B	590	28.061	61.366	70.569	1.00	22.65	B	O
10	ATOM	3943	OD2	ASP	B	590	28.876	59.844	71.918	1.00	18.92	B	O
	ATOM	3944	C	ASP	B	590	25.768	59.691	69.273	1.00	17.70	B	C
	ATOM	3945	O	ASP	B	590	24.986	60.187	70.088	1.00	18.25	B	O
	ATOM	3946	N	ASN	B	591	25.813	60.060	67.994	1.00	19.19	B	N
	ATOM	3947	CA	ASN	B	591	24.906	61.055	67.418	1.00	15.76	B	C
	ATOM	3948	CB	ASN	B	591	25.369	62.486	67.748	1.00	14.89	B	C
15	ATOM	3949	CG	ASN	B	591	26.684	62.850	67.111	1.00	12.98	B	C
	ATOM	3950	OD1	ASN	B	591	27.734	62.812	67.750	1.00	15.41	B	O
	ATOM	3951	ND2	ASN	B	591	26.636	63.227	65.849	1.00	15.45	B	N
	ATOM	3952	C	ASN	B	591	24.813	60.815	65.906	1.00	14.64	B	C
	ATOM	3953	O	ASN	B	591	25.583	60.030	65.355	1.00	13.91	B	O
20	ATOM	3954	N	ILE	B	592	23.856	61.462	65.244	1.00	13.85	B	N
	ATOM	3955	CA	ILE	B	592	23.648	61.280	63.805	1.00	12.58	B	C
	ATOM	3956	CB	ILE	B	592	22.323	60.522	63.518	1.00	11.83	B	C
	ATOM	3957	CG2	ILE	B	592	22.308	59.167	64.209	1.00	11.08	B	C
	ATOM	3958	CG1	ILE	B	592	21.143	61.372	63.997	1.00	7.11	B	C
25	ATOM	3959	CD1	ILE	B	592	19.791	60.873	63.534	1.00	5.09	B	C
	ATOM	3960	C	ILE	B	592	23.556	62.594	63.030	1.00	13.15	B	C
	ATOM	3961	O	ILE	B	592	23.615	63.684	63.604	1.00	12.68	B	O
	ATOM	3962	N	SER	B	593	23.403	62.457	61.714	1.00	13.61	B	N
	ATOM	3963	CA	SER	B	593	23.236	63.580	60.798	1.00	9.79	B	C
30	ATOM	3964	CB	SER	B	593	24.340	63.597	59.752	1.00	12.13	B	C
	ATOM	3965	OG	SER	B	593	25.594	63.887	60.331	1.00	13.84	B	O
	ATOM	3966	C	SER	B	593	21.900	63.368	60.095	1.00	8.61	B	C
	ATOM	3967	O	SER	B	593	21.535	62.231	59.783	1.00	8.68	B	O
	ATOM	3968	N	HIS	B	594	21.184	64.468	59.859	1.00	11.92	B	N
35	ATOM	3969	CA	HIS	B	594	19.868	64.482	59.190	1.00	13.39	B	C
	ATOM	3970	CB	HIS	B	594	19.843	63.527	57.980	1.00	11.97	B	C
	ATOM	3971	CG	HIS	B	594	20.721	63.968	56.849	1.00	13.33	B	C
	ATOM	3972	CD2	HIS	B	594	21.725	63.329	56.197	1.00	11.54	B	C
	ATOM	3973	ND1	HIS	B	594	20.657	65.236	56.304	1.00	14.19	B	N
40	ATOM	3974	CE1	HIS	B	594	21.584	65.360	55.369	1.00	10.96	B	C
	ATOM	3975	NE2	HIS	B	594	22.244	64.218	55.284	1.00	13.35	B	N
	ATOM	3976	C	HIS	B	594	18.721	64.152	60.141	1.00	11.34	B	C
	ATOM	3977	O	HIS	B	594	18.101	65.047	60.693	1.00	14.39	B	O
	ATOM	3978	N	GLY	B	595	18.430	62.874	60.324	1.00	11.33	B	N
45	ATOM	3979	CA	GLY	B	595	17.359	62.489	61.228	1.00	13.02	B	C
	ATOM	3980	C	GLY	B	595	15.942	62.920	60.870	1.00	14.52	B	C
	ATOM	3981	O	GLY	B	595	15.054	62.907	61.725	1.00	15.68	B	O
	ATOM	3982	N	LEU	B	596	15.709	63.264	59.609	1.00	15.23	B	N
	ATOM	3983	CA	LEU	B	596	14.390	63.714	59.164	1.00	13.65	B	C
50	ATOM	3984	CB	LEU	B	596	14.415	64.020	57.666	1.00	12.35	B	C
	ATOM	3985	CG	LEU	B	596	15.376	65.114	57.217	1.00	11.44	B	C
	ATOM	3986	CD1	LEU	B	596	15.335	65.239	55.696	1.00	6.72	B	C
	ATOM	3987	CD2	LEU	B	596	14.995	66.420	57.899	1.00	9.19	B	C
	ATOM	3988	C	LEU	B	596	13.251	62.746	59.435	1.00	13.16	B	C
55	ATOM	3989	O	LEU	B	596	12.165	63.149	59.862	1.00	14.03	B	O
	ATOM	3990	N	ASN	B	597	13.495	61.471	59.172	1.00	13.15	B	N
	ATOM	3991	CA	ASN	B	597	12.471	60.460	59.352	1.00	13.55	B	C
	ATOM	3992	CB	ASN	B	597	12.940	59.143	58.725	1.00	14.59	B	C
	ATOM	3993	CG	ASN	B	597	12.728	59.115	57.216	1.00	14.64	B	C
60	ATOM	3994	OD1	ASN	B	597	12.048	59.978	56.657	1.00	15.09	B	O
	ATOM	3995	ND2	ASN	B	597	13.309	58.126	56.553	1.00	15.09	B	N
	ATOM	3996	C	ASN	B	597	11.980	60.236	60.783	1.00	15.43	B	C
	ATOM	3997	O	ASN	B	597	11.083	59.421	61.003	1.00	17.41	B	O
	ATOM	3998	N	LEU	B	598	12.548	60.938	61.760	1.00	14.52	B	N
65	ATOM	3999	CA	LEU	B	598	12.062	60.777	63.128	1.00	15.15	B	C
	ATOM	4000	CB	LEU	B	598	12.927	61.565	64.118	1.00	12.48	B	C
	ATOM	4001	CG	LEU	B	598	14.295	60.937	64.409	1.00	13.27	B	C
	ATOM	4002	CD1	LEU	B	598	15.173	61.908	65.182	1.00	7.29	B	C

	ATOM	4003	CD2	LEU	B	598	14.095	59.626	65.168	1.00	8.55	B	C
	ATOM	4004	C	LEU	B	598	10.635	61.318	63.127	1.00	16.39	B	C
	ATOM	4005	O	LEU	B	598	9.821	60.977	63.983	1.00	14.02	B	O
	ATOM	4006	N	LYS	B	599	10.345	62.157	62.133	1.00	19.78	B	N
5	ATOM	4007	CA	LYS	B	599	9.027	62.766	61.954	1.00	21.69	B	C
	ATOM	4008	CB	LYS	B	599	9.006	63.611	60.676	1.00	24.18	B	C
	ATOM	4009	CG	LYS	B	599	9.215	65.084	60.898	1.00	31.70	B	C
	ATOM	4010	CD	LYS	B	599	7.885	65.821	60.995	1.00	38.86	B	C
	ATOM	4011	CE	LYS	B	599	7.904	66.889	62.096	1.00	38.49	B	C
10	ATOM	4012	NZ	LYS	B	599	7.186	66.430	63.315	1.00	36.87	B	N
	ATOM	4013	C	LYS	B	599	7.952	61.701	61.826	1.00	19.88	B	C
	ATOM	4014	O	LYS	B	599	6.823	61.882	62.270	1.00	17.99	B	O
	ATOM	4015	N	LYS	B	600	8.312	60.589	61.200	1.00	20.92	B	N
	ATOM	4016	CA	LYS	B	600	7.366	59.512	60.975	1.00	21.86	B	C
15	ATOM	4017	CB	LYS	B	600	7.739	58.767	59.693	1.00	24.24	B	C
	ATOM	4018	CG	LYS	B	600	7.970	59.679	58.504	1.00	26.53	B	C
	ATOM	4019	CD	LYS	B	600	8.235	58.875	57.251	1.00	29.11	B	C
	ATOM	4020	CE	LYS	B	600	8.532	59.781	56.070	1.00	32.84	B	C
	ATOM	4021	NZ	LYS	B	600	9.174	59.033	54.948	1.00	35.17	B	N
20	ATOM	4022	C	LYS	B	600	7.220	58.513	62.114	1.00	20.62	B	C
	ATOM	4023	O	LYS	B	600	6.355	57.648	62.058	1.00	22.14	B	O
	ATOM	4024	N	SER	B	601	8.048	58.625	63.145	1.00	17.79	B	N
	ATOM	4025	CA	SER	B	601	7.973	57.681	64.255	1.00	17.16	B	C
	ATOM	4026	CB	SER	B	601	9.168	56.723	64.211	1.00	14.70	B	C
25	ATOM	4027	OG	SER	B	601	9.008	55.687	65.156	1.00	16.48	B	O
	ATOM	4028	C	SER	B	601	7.923	58.339	65.628	1.00	16.40	B	C
	ATOM	4029	O	SER	B	601	8.938	58.807	66.139	1.00	16.16	B	O
	ATOM	4030	N	PRO	B	602	6.732	58.392	66.241	1.00	16.74	B	N
	ATOM	4031	CD	PRO	B	602	5.447	57.901	65.715	1.00	16.72	B	C
30	ATOM	4032	CA	PRO	B	602	6.584	59.001	67.569	1.00	16.75	B	C
	ATOM	4033	CB	PRO	B	602	5.091	58.864	67.868	1.00	16.61	B	C
	ATOM	4034	CG	PRO	B	602	4.613	57.765	66.954	1.00	18.09	B	C
	ATOM	4035	C	PRO	B	602	7.443	58.285	68.611	1.00	16.59	B	C
	ATOM	4036	O	PRO	B	602	8.076	58.919	69.451	1.00	14.65	B	O
35	ATOM	4037	N	VAL	B	603	7.471	56.957	68.544	1.00	18.29	B	N
	ATOM	4038	CA	VAL	B	603	8.258	56.178	69.494	1.00	15.28	B	C
	ATOM	4039	CB	VAL	B	603	8.054	54.657	69.311	1.00	14.18	B	C
	ATOM	4040	CG1	VAL	B	603	8.871	53.903	70.350	1.00	11.54	B	C
	ATOM	4041	CG2	VAL	B	603	6.579	54.300	69.456	1.00	5.20	B	C
40	ATOM	4042	C	VAL	B	603	9.745	56.487	69.387	1.00	16.57	B	C
	ATOM	4043	O	VAL	B	603	10.389	56.777	70.398	1.00	20.82	B	O
	ATOM	4044	N	LEU	B	604	10.292	56.441	68.176	1.00	12.47	B	N
	ATOM	4045	CA	LEU	B	604	11.715	56.724	67.998	1.00	12.62	B	C
	ATOM	4046	CB	LEU	B	604	12.174	56.316	66.593	1.00	13.54	B	C
45	ATOM	4047	CG	LEU	B	604	12.488	54.835	66.365	1.00	9.42	B	C
	ATOM	4048	CD1	LEU	B	604	12.491	54.539	64.879	1.00	9.08	B	C
	ATOM	4049	CD2	LEU	B	604	13.838	54.504	66.967	1.00	14.47	B	C
	ATOM	4050	C	LEU	B	604	12.042	58.196	68.235	1.00	11.44	B	C
	ATOM	4051	O	LEU	B	604	13.113	58.526	68.755	1.00	12.27	B	O
50	ATOM	4052	N	GLN	B	605	11.134	59.083	67.846	1.00	11.09	B	N
	ATOM	4053	CA	GLN	B	605	11.352	60.512	68.045	1.00	9.87	B	C
	ATOM	4054	CB	GLN	B	605	10.244	61.320	67.379	1.00	7.12	B	C
	ATOM	4055	CG	GLN	B	605	10.466	62.830	67.430	1.00	8.06	B	C
	ATOM	4056	CD	GLN	B	605	9.294	63.597	66.843	1.00	14.22	B	C
55	ATOM	4057	OE1	GLN	B	605	8.634	63.118	65.912	1.00	17.40	B	O
	ATOM	4058	NE2	GLN	B	605	9.023	64.786	67.380	1.00	7.93	B	N
	ATOM	4059	C	GLN	B	605	11.395	60.838	69.536	1.00	10.83	B	C
	ATOM	4060	O	GLN	B	605	12.231	61.622	69.988	1.00	10.35	B	O
	ATOM	4061	N	TYR	B	606	10.491	60.229	70.298	1.00	12.60	B	N
60	ATOM	4062	CA	TYR	B	606	10.433	60.451	71.740	1.00	12.04	B	C
	ATOM	4063	CB	TYR	B	606	9.174	59.791	72.326	1.00	11.90	B	C
	ATOM	4064	CG	TYR	B	606	8.854	60.195	73.755	1.00	15.99	B	C
	ATOM	4065	CD1	TYR	B	606	8.755	61.541	74.120	1.00	16.23	B	C
	ATOM	4066	CE1	TYR	B	606	8.463	61.916	75.441	1.00	14.18	B	C
65	ATOM	4067	CD2	TYR	B	606	8.651	59.225	74.749	1.00	14.50	B	C
	ATOM	4068	CE2	TYR	B	606	8.359	59.590	76.072	1.00	14.30	B	C
	ATOM	4069	CZ	TYR	B	606	8.268	60.935	76.408	1.00	14.89	B	C
	ATOM	4070	OH	TYR	B	606	7.993	61.295	77.708	1.00	16.91	B	O

	ATOM	4071	C	TYR	B	606	11.699	59.884	72.388	1.00	11.52	B	C
	ATOM	4072	O	TYR	B	606	12.287	60.507	73.283	1.00	9.95	B	O
	ATOM	4073	N	LEU	B	607	12.130	58.714	71.919	1.00	9.66	B	N
	ATOM	4074	CA	LEU	B	607	13.336	58.070	72.453	1.00	8.40	B	C
5	ATOM	4075	CB	LEU	B	607	13.547	56.708	71.792	1.00	7.38	B	C
	ATOM	4076	CG	LEU	B	607	12.685	55.583	72.360	1.00	8.61	B	C
	ATOM	4077	CD1	LEU	B	607	12.921	54.314	71.582	1.00	3.64	B	C
	ATOM	4078	CD2	LEU	B	607	13.013	55.392	73.836	1.00	7.94	B	C
	ATOM	4079	C	LEU	B	607	14.574	58.933	72.235	1.00	6.10	B	C
10	ATOM	4080	O	LEU	B	607	15.473	58.962	73.064	1.00	7.75	B	O
	ATOM	4081	N	PHE	B	608	14.614	59.639	71.112	1.00	8.27	B	N
	ATOM	4082	CA	PHE	B	608	15.744	60.509	70.804	1.00	7.76	B	C
	ATOM	4083	CB	PHE	B	608	15.707	60.936	69.329	1.00	5.87	B	C
	ATOM	4084	CG	PHE	B	608	16.510	60.041	68.419	1.00	4.27	B	C
15	ATOM	4085	CD1	PHE	B	608	16.129	58.724	68.199	1.00	5.43	B	C
	ATOM	4086	CD2	PHE	B	608	17.659	60.512	67.795	1.00	5.26	B	C
	ATOM	4087	CE1	PHE	B	608	16.887	57.887	67.369	1.00	6.43	B	C
	ATOM	4088	CE2	PHE	B	608	18.419	59.685	66.967	1.00	3.17	B	C
	ATOM	4089	CZ	PHE	B	608	18.032	58.371	66.755	1.00	2.29	B	C
20	ATOM	4090	C	PHE	B	608	15.721	61.734	71.709	1.00	7.74	B	C
	ATOM	4091	O	PHE	B	608	16.754	62.355	71.962	1.00	9.36	B	O
	ATOM	4092	N	PHE	B	609	14.534	62.091	72.188	1.00	10.21	B	N
	ATOM	4093	CA	PHE	B	609	14.393	63.228	73.086	1.00	7.22	B	C
25	ATOM	4094	CB	PHE	B	609	12.935	63.687	73.158	1.00	9.38	B	C
	ATOM	4095	CG	PHE	B	609	12.660	64.629	74.297	1.00	10.16	B	C
	ATOM	4096	CD1	PHE	B	609	12.053	64.170	75.470	1.00	11.36	B	C
	ATOM	4097	CD2	PHE	B	609	13.069	65.960	74.230	1.00	9.82	B	C
	ATOM	4098	CE1	PHE	B	609	11.862	65.020	76.566	1.00	9.03	B	C
	ATOM	4099	CE2	PHE	B	609	12.884	66.825	75.323	1.00	8.03	B	C
30	ATOM	4100	CZ	PHE	B	609	12.280	66.349	76.493	1.00	8.31	B	C
	ATOM	4101	C	PHE	B	609	14.849	62.775	74.472	1.00	10.19	B	C
	ATOM	4102	O	PHE	B	609	15.680	63.425	75.111	1.00	11.63	B	O
	ATOM	4103	N	LEU	B	610	14.305	61.651	74.930	1.00	7.90	B	N
35	ATOM	4104	CA	LEU	B	610	14.652	61.108	76.238	1.00	8.51	B	C
	ATOM	4105	CB	LEU	B	610	13.906	59.801	76.492	1.00	4.45	B	C
	ATOM	4106	CG	LEU	B	610	12.391	59.852	76.608	1.00	5.48	B	C
	ATOM	4107	CD1	LEU	B	610	11.862	58.438	76.757	1.00	5.62	B	C
	ATOM	4108	CD2	LEU	B	610	11.990	60.720	77.790	1.00	4.24	B	C
	ATOM	4109	C	LEU	B	610	16.148	60.848	76.389	1.00	12.20	B	C
40	ATOM	4110	O	LEU	B	610	16.739	61.160	77.434	1.00	15.14	B	O
	ATOM	4111	N	ALA	B	611	16.758	60.256	75.362	1.00	11.22	B	N
	ATOM	4112	CA	ALA	B	611	18.191	59.959	75.391	1.00	9.11	B	C
	ATOM	4113	CB	ALA	B	611	18.499	58.797	74.451	1.00	6.97	B	C
	ATOM	4114	C	ALA	B	611	19.028	61.179	75.008	1.00	6.50	B	C
45	ATOM	4115	O	ALA	B	611	20.247	61.170	75.124	1.00	9.36	B	O
	ATOM	4116	N	GLN	B	612	18.362	62.229	74.548	1.00	9.83	B	N
	ATOM	4117	CA	GLN	B	612	19.025	63.464	74.138	1.00	11.80	B	C
	ATOM	4118	CB	GLN	B	612	19.609	64.170	75.363	1.00	11.24	B	C
	ATOM	4119	CG	GLN	B	612	18.594	64.993	76.141	1.00	14.19	B	C
50	ATOM	4120	CD	GLN	B	612	17.949	66.076	75.292	1.00	19.34	B	C
	ATOM	4121	OE1	GLN	B	612	18.586	67.073	74.943	1.00	15.47	B	O
	ATOM	4122	NE2	GLN	B	612	16.680	65.884	74.951	1.00	16.73	B	N
	ATOM	4123	C	GLN	B	612	20.124	63.223	73.096	1.00	13.76	B	C
	ATOM	4124	O	GLN	B	612	21.233	63.747	73.206	1.00	14.74	B	O
55	ATOM	4125	N	ILE	B	613	19.807	62.434	72.076	1.00	14.33	B	N
	ATOM	4126	CA	ILE	B	613	20.778	62.122	71.038	1.00	11.43	B	C
	ATOM	4127	CB	ILE	B	613	20.311	60.907	70.210	1.00	9.95	B	C
	ATOM	4128	CG2	ILE	B	613	21.416	60.471	69.260	1.00	11.27	B	C
	ATOM	4129	CG1	ILE	B	613	19.909	59.765	71.146	1.00	8.74	B	C
60	ATOM	4130	CD1	ILE	B	613	19.545	58.452	70.447	1.00	2.19	B	C
	ATOM	4131	C	ILE	B	613	21.003	63.313	70.103	1.00	11.73	B	C
	ATOM	4132	O	ILE	B	613	20.071	63.784	69.456	1.00	14.23	B	O
	ATOM	4133	N	PRO	B	614	22.240	63.825	70.032	1.00	11.28	B	N
	ATOM	4134	CD	PRO	B	614	23.429	63.374	70.775	1.00	10.81	B	C
65	ATOM	4135	CA	PRO	B	614	22.553	64.963	69.159	1.00	10.69	B	C
	ATOM	4136	CB	PRO	B	614	24.047	65.188	69.375	1.00	9.01	B	C
	ATOM	4137	CG	PRO	B	614	24.348	64.540	70.666	1.00	5.00	B	C
	ATOM	4138	C	PRO	B	614	22.233	64.664	67.693	1.00	11.32	B	C

	ATOM	4139	O	PRO	B	614	22.537	63.583	67.190	1.00	9.40	B	O
	ATOM	4140	N	ILE	B	615	21.621	65.628	67.015	1.00	11.66	B	N
	ATOM	4141	CA	ILE	B	615	21.249	65.463	65.609	1.00	10.61	B	C
	ATOM	4142	CB	ILE	B	615	19.713	65.375	65.442	1.00	10.90	B	C
5	ATOM	4143	CG2	ILE	B	615	19.351	65.243	63.970	1.00	11.66	B	C
	ATOM	4144	CG1	ILE	B	615	19.159	64.186	66.230	1.00	7.15	B	C
	ATOM	4145	CD1	ILE	B	615	17.654	64.254	66.429	1.00	5.13	B	C
	ATOM	4146	C	ILE	B	615	21.736	66.652	64.800	1.00	9.10	B	C
	ATOM	4147	O	ILE	B	615	21.333	67.781	65.062	1.00	11.95	B	O
10	ATOM	4148	N	ALA	B	616	22.612	66.413	63.831	1.00	11.53	B	N
	ATOM	4149	CA	ALA	B	616	23.112	67.513	62.995	1.00	11.72	B	C
	ATOM	4150	CB	ALA	B	616	24.531	67.235	62.543	1.00	10.37	B	C
	ATOM	4151	C	ALA	B	616	22.194	67.658	61.784	1.00	9.51	B	C
	ATOM	4152	O	ALA	B	616	22.131	66.770	60.927	1.00	9.07	B	O
15	ATOM	4153	N	MET	B	617	21.465	68.766	61.719	1.00	9.92	B	N
	ATOM	4154	CA	MET	B	617	20.549	68.982	60.603	1.00	11.08	B	C
	ATOM	4155	CB	MET	B	617	19.200	69.492	61.118	1.00	8.92	B	C
	ATOM	4156	CG	MET	B	617	18.677	68.735	62.340	1.00	13.19	B	C
	ATOM	4157	SD	MET	B	617	16.888	68.493	62.322	1.00	21.20	B	S
20	ATOM	4158	CE	MET	B	617	16.428	69.733	63.374	1.00	24.19	B	C
	ATOM	4159	C	MET	B	617	21.115	69.947	59.565	1.00	10.06	B	C
	ATOM	4160	O	MET	B	617	22.001	70.757	59.866	1.00	7.18	B	O
	ATOM	4161	N	SER	B	618	20.585	69.846	58.346	1.00	12.95	B	N
	ATOM	4162	CA	SER	B	618	21.001	70.671	57.204	1.00	11.71	B	C
25	ATOM	4163	CB	SER	B	618	22.040	69.929	56.363	1.00	10.21	B	C
	ATOM	4164	OG	SER	B	618	23.007	69.287	57.173	1.00	13.21	B	O
	ATOM	4165	C	SER	B	618	19.808	70.971	56.310	1.00	12.91	B	C
	ATOM	4166	O	SER	B	618	19.634	70.337	55.280	1.00	14.28	B	O
	ATOM	4167	N	PRO	B	619	18.960	71.925	56.699	1.00	13.30	B	N
30	ATOM	4168	CD	PRO	B	619	19.032	72.700	57.948	1.00	11.99	B	C
	ATOM	4169	CA	PRO	B	619	17.782	72.282	55.901	1.00	12.29	B	C
	ATOM	4170	CB	PRO	B	619	17.137	73.413	56.700	1.00	12.20	B	C
	ATOM	4171	CG	PRO	B	619	17.633	73.215	58.098	1.00	11.57	B	C
	ATOM	4172	C	PRO	B	619	18.030	72.679	54.436	1.00	13.69	B	C
35	ATOM	4173	O	PRO	B	619	17.219	72.352	53.573	1.00	12.94	B	O
	ATOM	4174	N	LEU	B	620	19.128	73.381	54.149	1.00	14.24	B	N
	ATOM	4175	CA	LEU	B	620	19.416	73.796	52.774	1.00	14.70	B	C
	ATOM	4176	CB	LEU	B	620	20.566	74.806	52.747	1.00	12.21	B	C
	ATOM	4177	CG	LEU	B	620	20.161	76.220	53.183	1.00	13.19	B	C
40	ATOM	4178	CD1	LEU	B	620	21.380	77.122	53.293	1.00	10.01	B	C
	ATOM	4179	CD2	LEU	B	620	19.167	76.783	52.186	1.00	11.10	B	C
	ATOM	4180	C	LEU	B	620	19.750	72.597	51.889	1.00	16.44	B	C
	ATOM	4181	O	LEU	B	620	19.344	72.523	50.721	1.00	17.58	B	O
	ATOM	4182	N	SER	B	621	20.500	71.657	52.446	1.00	17.05	B	N
45	ATOM	4183	CA	SER	B	621	20.857	70.452	51.718	1.00	15.21	B	C
	ATOM	4184	CB	SER	B	621	21.856	69.639	52.530	1.00	14.23	B	C
	ATOM	4185	OG	SER	B	621	22.028	68.346	51.998	1.00	16.97	B	O
	ATOM	4186	C	SER	B	621	19.585	69.645	51.458	1.00	17.04	B	C
	ATOM	4187	O	SER	B	621	19.353	69.192	50.336	1.00	17.49	B	O
50	ATOM	4188	N	ASN	B	622	18.748	69.482	52.485	1.00	16.43	B	N
	ATOM	4189	CA	ASN	B	622	17.493	68.733	52.347	1.00	14.60	B	C
	ATOM	4190	CB	ASN	B	622	16.735	68.677	53.679	1.00	17.04	B	C
	ATOM	4191	CG	ASN	B	622	17.552	68.071	54.811	1.00	18.49	B	C
	ATOM	4192	OD1	ASN	B	622	17.312	68.366	55.983	1.00	18.56	B	O
55	ATOM	4193	ND2	ASN	B	622	18.512	67.217	54.469	1.00	18.32	B	N
	ATOM	4194	C	ASN	B	622	16.575	69.365	51.305	1.00	15.16	B	C
	ATOM	4195	O	ASN	B	622	15.898	68.662	50.554	1.00	15.42	B	O
	ATOM	4196	N	ASN	B	623	16.543	70.694	51.281	1.00	13.44	B	N
	ATOM	4197	CA	ASN	B	623	15.708	71.441	50.346	1.00	18.18	B	C
60	ATOM	4198	CB	ASN	B	623	15.796	72.939	50.680	1.00	16.05	B	C
	ATOM	4199	CG	ASN	B	623	15.049	73.820	49.693	1.00	13.48	B	C
	ATOM	4200	OD1	ASN	B	623	15.655	74.645	49.012	1.00	13.08	B	O
	ATOM	4201	ND2	ASN	B	623	13.735	73.661	49.624	1.00	9.21	B	N
	ATOM	4202	C	ASN	B	623	16.141	71.177	48.907	1.00	23.03	B	C
65	ATOM	4203	O	ASN	B	623	15.336	71.202	47.987	1.00	24.13	B	O
	ATOM	4204	N	SER	B	624	17.423	70.908	48.723	1.00	29.01	B	N
	ATOM	4205	CA	SER	B	624	17.961	70.645	47.396	1.00	33.14	B	C
	ATOM	4206	CB	SER	B	624	19.387	71.181	47.301	1.00	33.17	B	C

	ATOM	4207	OG	SER	B	624	19.507	72.122	46.255	1.00	36.57	B	O
	ATOM	4208	C	SER	B	624	17.993	69.161	47.075	1.00	36.67	B	C
	ATOM	4209	O	SER	B	624	18.277	68.779	45.937	1.00	37.42	B	O
5	ATOM	4210	N	LEU	B	625	17.681	68.326	48.063	1.00	39.45	B	N
	ATOM	4211	CA	LEU	B	625	17.759	66.888	47.864	1.00	40.62	B	C
	ATOM	4212	CB	LEU	B	625	18.931	66.358	48.699	1.00	41.41	B	C
	ATOM	4213	CG	LEU	B	625	20.115	65.647	48.033	1.00	44.07	B	C
	ATOM	4214	CD1	LEU	B	625	19.689	65.077	46.698	1.00	49.45	B	C
10	ATOM	4215	CD2	LEU	B	625	21.267	66.606	47.841	1.00	44.50	B	C
	ATOM	4216	C	LEU	B	625	16.504	66.036	48.138	1.00	40.80	B	C
	ATOM	4217	O	LEU	B	625	16.127	65.218	47.304	1.00	41.03	B	O
	ATOM	4218	N	PHE	B	626	15.858	66.218	49.288	1.00	40.88	B	N
	ATOM	4219	CA	PHE	B	626	14.697	65.392	49.630	1.00	38.39	B	C
15	ATOM	4220	CB	PHE	B	626	15.120	64.313	50.635	1.00	37.27	B	C
	ATOM	4221	CG	PHE	B	626	16.105	63.311	50.091	1.00	38.46	B	C
	ATOM	4222	CD1	PHE	B	626	15.663	62.178	49.413	1.00	36.47	B	C
	ATOM	4223	CD2	PHE	B	626	17.475	63.483	50.281	1.00	40.35	B	C
	ATOM	4224	CE1	PHE	B	626	16.570	61.232	48.936	1.00	38.66	B	C
20	ATOM	4225	CE2	PHE	B	626	18.396	62.540	49.806	1.00	37.49	B	C
	ATOM	4226	CZ	PHE	B	626	17.942	61.415	49.133	1.00	38.12	B	C
	ATOM	4227	C	PHE	B	626	13.451	66.091	50.181	1.00	37.22	B	C
	ATOM	4228	O	PHE	B	626	12.343	65.629	49.934	1.00	38.84	B	O
	ATOM	4229	N	LEU	B	627	13.621	67.188	50.919	1.00	35.53	B	N
25	ATOM	4230	CA	LEU	B	627	12.484	67.889	51.516	1.00	33.39	B	C
	ATOM	4231	CB	LEU	B	627	12.458	67.627	53.025	1.00	32.91	B	C
	ATOM	4232	CG	LEU	B	627	11.195	67.159	53.751	1.00	29.47	B	C
	ATOM	4233	CD1	LEU	B	627	11.279	67.631	55.192	1.00	28.18	B	C
	ATOM	4234	CD2	LEU	B	627	9.945	67.689	53.078	1.00	26.31	B	C
30	ATOM	4235	C	LEU	B	627	12.521	69.391	51.289	1.00	32.96	B	C
	ATOM	4236	O	LEU	B	627	13.539	70.034	51.523	1.00	34.49	B	O
	ATOM	4237	N	GLU	B	628	11.395	69.949	50.859	1.00	31.43	B	N
	ATOM	4238	CA	GLU	B	628	11.290	71.385	50.622	1.00	32.21	B	C
	ATOM	4239	CB	GLU	B	628	9.903	71.695	50.055	1.00	37.81	B	C
35	ATOM	4240	CG	GLU	B	628	9.340	73.053	50.411	1.00	46.48	B	C
	ATOM	4241	CD	GLU	B	628	7.864	73.174	50.063	1.00	51.86	B	C
	ATOM	4242	OE1	GLU	B	628	7.252	72.153	49.673	1.00	50.91	B	O
	ATOM	4243	OE2	GLU	B	628	7.317	74.294	50.182	1.00	55.20	B	O
	ATOM	4244	C	GLU	B	628	11.532	72.131	51.940	1.00	29.11	B	C
40	ATOM	4245	O	GLU	B	628	11.044	71.712	52.988	1.00	27.66	B	O
	ATOM	4246	N	TYR	B	629	12.273	73.236	51.883	1.00	24.21	B	N
	ATOM	4247	CA	TYR	B	629	12.607	73.998	53.083	1.00	21.61	B	C
	ATOM	4248	CB	TYR	B	629	13.193	75.365	52.720	1.00	19.65	B	C
	ATOM	4249	CG	TYR	B	629	14.138	75.874	53.788	1.00	21.15	B	C
45	ATOM	4250	CD1	TYR	B	629	13.657	76.538	54.921	1.00	19.89	B	C
	ATOM	4251	CE1	TYR	B	629	14.517	76.927	55.945	1.00	19.07	B	C
	ATOM	4252	CD2	TYR	B	629	15.505	75.623	53.707	1.00	18.22	B	C
	ATOM	4253	CE2	TYR	B	629	16.369	76.007	54.723	1.00	21.67	B	C
	ATOM	4254	CZ	TYR	B	629	15.872	76.653	55.840	1.00	22.47	B	C
50	ATOM	4255	OH	TYR	B	629	16.743	76.995	56.853	1.00	24.76	B	O
	ATOM	4256	C	TYR	B	629	11.512	74.204	54.121	1.00	21.80	B	C
	ATOM	4257	O	TYR	B	629	11.643	73.763	55.263	1.00	21.41	B	O
	ATOM	4258	N	ALA	B	630	10.436	74.876	53.732	1.00	22.89	B	N
	ATOM	4259	CA	ALA	B	630	9.343	75.162	54.656	1.00	23.25	B	C
55	ATOM	4260	CB	ALA	B	630	8.276	76.003	53.960	1.00	22.76	B	C
	ATOM	4261	C	ALA	B	630	8.700	73.929	55.289	1.00	23.11	B	C
	ATOM	4262	O	ALA	B	630	7.883	74.056	56.199	1.00	22.93	B	O
	ATOM	4263	N	LYS	B	631	9.069	72.743	54.820	1.00	19.37	B	N
	ATOM	4264	CA	LYS	B	631	8.504	71.516	55.364	1.00	20.86	B	C
60	ATOM	4265	CB	LYS	B	631	8.095	70.571	54.226	1.00	24.53	B	C
	ATOM	4266	CG	LYS	B	631	6.698	70.813	53.653	1.00	31.18	B	C
	ATOM	4267	CD	LYS	B	631	6.311	72.296	53.683	1.00	38.76	B	C
	ATOM	4268	CE	LYS	B	631	4.790	72.497	53.701	1.00	43.32	B	C
	ATOM	4269	NZ	LYS	B	631	4.351	73.642	52.835	1.00	42.85	B	N
65	ATOM	4270	C	LYS	B	631	9.495	70.804	56.288	1.00	19.88	B	C
	ATOM	4271	O	LYS	B	631	9.216	69.715	56.790	1.00	18.23	B	O
	ATOM	4272	N	ASN	B	632	10.649	71.422	56.515	1.00	17.30	B	N
	ATOM	4273	CA	ASN	B	632	11.666	70.818	57.369	1.00	16.76	B	C
	ATOM	4274	CB	ASN	B	632	12.982	71.587	57.248	1.00	16.95	B	C

	ATOM	4275	CG	ASN	B	632	14.174	70.741	57.619	1.00	16.71	B	C
	ATOM	4276	OD1	ASN	B	632	14.905	70.280	56.752	1.00	21.42	B	O
	ATOM	4277	ND2	ASN	B	632	14.372	70.520	58.914	1.00	14.46	B	N
	ATOM	4278	C	ASN	B	632	11.266	70.739	58.841	1.00	15.76	B	C
5	ATOM	4279	O	ASN	B	632	10.783	71.712	59.414	1.00	17.49	B	O
	ATOM	4280	N	PRO	B	633	11.467	69.569	59.473	1.00	16.46	B	N
	ATOM	4281	CD	PRO	B	633	12.007	68.325	58.897	1.00	14.87	B	C
	ATOM	4282	CA	PRO	B	633	11.115	69.416	60.889	1.00	16.50	B	C
10	ATOM	4283	CB	PRO	B	633	11.080	67.904	61.087	1.00	16.66	B	C
	ATOM	4284	CG	PRO	B	633	11.991	67.365	60.047	1.00	15.23	B	C
	ATOM	4285	C	PRO	B	633	12.088	70.090	61.860	1.00	15.78	B	C
	ATOM	4286	O	PRO	B	633	11.962	69.926	63.063	1.00	17.61	B	O
	ATOM	4287	N	PHE	B	634	13.045	70.856	61.343	1.00	14.01	B	N
15	ATOM	4288	CA	PHE	B	634	14.021	71.525	62.192	1.00	12.75	B	C
	ATOM	4289	CB	PHE	B	634	14.921	72.447	61.358	1.00	11.75	B	C
	ATOM	4290	CG	PHE	B	634	15.810	73.339	62.192	1.00	14.11	B	C
	ATOM	4291	CD1	PHE	B	634	15.396	74.622	62.540	1.00	14.62	B	C
	ATOM	4292	CD2	PHE	B	634	17.033	72.879	62.675	1.00	14.00	B	C
20	ATOM	4293	CE1	PHE	B	634	16.183	75.435	63.363	1.00	11.34	B	C
	ATOM	4294	CE2	PHE	B	634	17.826	73.685	63.501	1.00	13.99	B	C
	ATOM	4295	CZ	PHE	B	634	17.393	74.967	63.844	1.00	11.23	B	C
	ATOM	4296	C	PHE	B	634	13.401	72.318	63.347	1.00	14.95	B	C
	ATOM	4297	O	PHE	B	634	13.798	72.142	64.498	1.00	14.66	B	O
25	ATOM	4298	N	LEU	B	635	12.442	73.188	63.049	1.00	11.26	B	N
	ATOM	4299	CA	LEU	B	635	11.805	73.991	64.086	1.00	11.60	B	C
	ATOM	4300	CB	LEU	B	635	10.829	74.991	63.465	1.00	9.99	B	C
	ATOM	4301	CG	LEU	B	635	10.178	75.978	64.434	1.00	8.88	B	C
	ATOM	4302	CD1	LEU	B	635	11.258	76.841	65.076	1.00	5.70	B	C
30	ATOM	4303	CD2	LEU	B	635	9.172	76.838	63.702	1.00	3.17	B	C
	ATOM	4304	C	LEU	B	635	11.057	73.108	65.081	1.00	13.18	B	C
	ATOM	4305	O	LEU	B	635	11.243	73.222	66.289	1.00	14.46	B	O
	ATOM	4306	N	ASP	B	636	10.203	72.231	64.569	1.00	11.41	B	N
	ATOM	4307	CA	ASP	B	636	9.439	71.327	65.415	1.00	11.21	B	C
35	ATOM	4308	CB	ASP	B	636	8.745	70.275	64.552	1.00	12.34	B	C
	ATOM	4309	CG	ASP	B	636	7.694	69.500	65.314	1.00	14.32	B	C
	ATOM	4310	OD1	ASP	B	636	6.834	70.129	65.962	1.00	16.95	B	O
	ATOM	4311	OD2	ASP	B	636	7.722	68.258	65.264	1.00	13.89	B	O
	ATOM	4312	C	ASP	B	636	10.351	70.635	66.431	1.00	14.10	B	C
40	ATOM	4313	O	ASP	B	636	10.090	70.648	67.642	1.00	13.64	B	O
	ATOM	4314	N	PHE	B	637	11.422	70.029	65.932	1.00	11.77	B	N
	ATOM	4315	CA	PHE	B	637	12.375	69.331	66.778	1.00	10.34	B	C
	ATOM	4316	CB	PHE	B	637	13.463	68.688	65.912	1.00	9.71	B	C
	ATOM	4317	CG	PHE	B	637	12.991	67.499	65.105	1.00	6.01	B	C
45	ATOM	4318	CD1	PHE	B	637	11.662	67.094	65.131	1.00	4.60	B	C
	ATOM	4319	CD2	PHE	B	637	13.893	66.773	64.331	1.00	9.36	B	C
	ATOM	4320	CE1	PHE	B	637	11.237	65.978	64.398	1.00	5.36	B	C
	ATOM	4321	CE2	PHE	B	637	13.481	65.659	63.598	1.00	6.26	B	C
	ATOM	4322	CZ	PHE	B	637	12.152	65.261	63.631	1.00	4.45	B	C
50	ATOM	4323	C	PHE	B	637	13.011	70.278	67.800	1.00	12.82	B	C
	ATOM	4324	O	PHE	B	637	13.150	69.935	68.974	1.00	13.80	B	O
	ATOM	4325	N	LEU	B	638	13.388	71.472	67.364	1.00	12.42	B	N
	ATOM	4326	CA	LEU	B	638	14.006	72.431	68.266	1.00	13.57	B	C
	ATOM	4327	CB	LEU	B	638	14.449	73.680	67.498	1.00	15.74	B	C
55	ATOM	4328	CG	LEU	B	638	15.148	74.719	68.382	1.00	19.73	B	C
	ATOM	4329	CD1	LEU	B	638	16.613	74.350	68.526	1.00	18.96	B	C
	ATOM	4330	CD2	LEU	B	638	15.001	76.107	67.793	1.00	16.59	B	C
	ATOM	4331	C	LEU	B	638	13.077	72.848	69.403	1.00	14.12	B	C
	ATOM	4332	O	LEU	B	638	13.485	72.893	70.565	1.00	15.98	B	O
60	ATOM	4333	N	GLN	B	639	11.832	73.166	69.068	1.00	14.17	B	N
	ATOM	4334	CA	GLN	B	639	10.867	73.590	70.075	1.00	15.00	B	C
	ATOM	4335	CB	GLN	B	639	9.566	74.024	69.404	1.00	12.04	B	C
	ATOM	4336	CG	GLN	B	639	9.680	75.305	68.607	1.00	11.93	B	C
	ATOM	4337	CD	GLN	B	639	8.380	75.659	67.923	1.00	14.32	B	C
65	ATOM	4338	OE1	GLN	B	639	7.638	74.779	67.502	1.00	16.43	B	O
	ATOM	4339	NE2	GLN	B	639	8.096	76.949	67.811	1.00	13.44	B	N
	ATOM	4340	C	GLN	B	639	10.575	72.477	71.076	1.00	15.90	B	C
	ATOM	4341	O	GLN	B	639	10.525	72.712	72.280	1.00	14.76	B	O
	ATOM	4342	N	LYS	B	640	10.383	71.267	70.558	1.00	16.57	B	N

	ATOM	4343	CA	LYS	B	640	10.093	70.099	71.378	1.00	14.30	B	C
	ATOM	4344	CB	LYS	B	640	9.825	68.895	70.479	1.00	12.47	B	C
	ATOM	4345	CG	LYS	B	640	8.486	68.943	69.785	1.00	9.84	B	C
	ATOM	4346	CD	LYS	B	640	8.242	67.655	69.062	1.00	6.55	B	C
5	ATOM	4347	CE	LYS	B	640	6.952	67.693	68.276	1.00	6.86	B	C
	ATOM	4348	NZ	LYS	B	640	6.978	66.604	67.268	1.00	11.59	B	N
	ATOM	4349	C	LYS	B	640	11.214	69.764	72.353	1.00	14.23	B	C
	ATOM	4350	O	LYS	B	640	10.973	69.128	73.380	1.00	13.49	B	O
10	ATOM	4351	N	GLY	B	641	12.439	70.169	72.020	1.00	13.29	B	N
	ATOM	4352	CA	GLY	B	641	13.568	69.909	72.897	1.00	10.24	B	C
	ATOM	4353	C	GLY	B	641	14.611	68.891	72.453	1.00	12.70	B	C
	ATOM	4354	O	GLY	B	641	15.514	68.581	73.226	1.00	10.94	B	O
	ATOM	4355	N	LEU	B	642	14.509	68.358	71.236	1.00	12.11	B	N
	ATOM	4356	CA	LEU	B	642	15.495	67.381	70.780	1.00	10.14	B	C
15	ATOM	4357	CB	LEU	B	642	15.087	66.762	69.437	1.00	10.37	B	C
	ATOM	4358	CG	LEU	B	642	13.765	66.008	69.174	1.00	14.55	B	C
	ATOM	4359	CD1	LEU	B	642	14.099	64.660	68.576	1.00	10.99	B	C
	ATOM	4360	CD2	LEU	B	642	12.918	65.836	70.413	1.00	13.34	B	C
20	ATOM	4361	C	LEU	B	642	16.850	68.082	70.640	1.00	12.84	B	C
	ATOM	4362	O	LEU	B	642	16.910	69.284	70.391	1.00	11.72	B	O
	ATOM	4363	N	MET	B	643	17.936	67.329	70.801	1.00	13.17	B	N
	ATOM	4364	CA	MET	B	643	19.289	67.885	70.721	1.00	15.69	B	C
	ATOM	4365	CB	MET	B	643	20.280	66.877	71.312	1.00	18.95	B	C
25	ATOM	4366	CG	MET	B	643	21.201	67.452	72.372	1.00	18.72	B	C
	ATOM	4367	SD	MET	B	643	22.663	68.180	71.629	1.00	26.56	B	S
	ATOM	4368	CE	MET	B	643	23.851	67.955	72.933	1.00	20.29	B	C
	ATOM	4369	C	MET	B	643	19.684	68.228	69.284	1.00	15.83	B	C
	ATOM	4370	O	MET	B	643	20.284	67.402	68.584	1.00	13.59	B	O
30	ATOM	4371	N	ILE	B	644	19.388	69.456	68.863	1.00	13.00	B	N
	ATOM	4372	CA	ILE	B	644	19.655	69.885	67.484	1.00	14.60	B	C
	ATOM	4373	CB	ILE	B	644	18.373	70.502	66.865	1.00	14.67	B	C
	ATOM	4374	CG2	ILE	B	644	18.618	70.877	65.429	1.00	16.05	B	C
	ATOM	4375	CG1	ILE	B	644	17.197	69.538	66.996	1.00	12.24	B	C
35	ATOM	4376	CD1	ILE	B	644	17.417	68.214	66.360	1.00	11.59	B	C
	ATOM	4377	C	ILE	B	644	20.780	70.903	67.217	1.00	15.53	B	C
	ATOM	4378	O	ILE	B	644	20.971	71.853	67.984	1.00	14.32	B	O
	ATOM	4379	N	SER	B	645	21.509	70.704	66.119	1.00	10.52	B	N
	ATOM	4380	CA	SER	B	645	22.537	71.653	65.689	1.00	9.14	B	C
40	ATOM	4381	CB	SER	B	645	23.956	71.185	66.057	1.00	7.58	B	C
	ATOM	4382	OG	SER	B	645	24.399	70.081	65.291	1.00	7.89	B	O
	ATOM	4383	C	SER	B	645	22.380	71.840	64.171	1.00	11.56	B	C
	ATOM	4384	O	SER	B	645	21.779	70.999	63.491	1.00	10.53	B	O
	ATOM	4385	N	LEU	B	646	22.884	72.952	63.646	1.00	10.74	B	N
45	ATOM	4386	CA	LEU	B	646	22.773	73.232	62.224	1.00	10.28	B	C
	ATOM	4387	CB	LEU	B	646	22.356	74.691	61.998	1.00	7.76	B	C
	ATOM	4388	CG	LEU	B	646	20.854	74.998	62.105	1.00	9.59	B	C
	ATOM	4389	CD1	LEU	B	646	20.632	76.478	61.957	1.00	3.41	B	C
	ATOM	4390	CD2	LEU	B	646	20.069	74.232	61.046	1.00	2.50	B	C
50	ATOM	4391	C	LEU	B	646	24.090	72.955	61.520	1.00	13.15	B	C
	ATOM	4392	O	LEU	B	646	25.158	73.306	62.025	1.00	13.71	B	O
	ATOM	4393	N	SER	B	647	24.011	72.305	60.361	1.00	14.32	B	N
	ATOM	4394	CA	SER	B	647	25.201	71.992	59.586	1.00	14.78	B	C
	ATOM	4395	CB	SER	B	647	25.607	70.524	59.763	1.00	10.15	B	C
55	ATOM	4396	OG	SER	B	647	24.521	69.659	59.509	1.00	12.88	B	O
	ATOM	4397	C	SER	B	647	25.007	72.315	58.107	1.00	14.86	B	C
	ATOM	4398	O	SER	B	647	23.890	72.446	57.616	1.00	12.60	B	O
	ATOM	4399	N	THR	B	648	26.130	72.420	57.414	1.00	15.71	B	N
60	ATOM	4400	CA	THR	B	648	26.190	72.784	56.008	1.00	17.11	B	C
	ATOM	4401	CB	THR	B	648	27.486	73.614	55.785	1.00	16.64	B	C
	ATOM	4402	OG1	THR	B	648	27.235	74.669	54.856	1.00	22.95	B	O
	ATOM	4403	CG2	THR	B	648	28.605	72.739	55.293	1.00	11.34	B	C
	ATOM	4404	C	THR	B	648	26.112	71.635	54.985	1.00	15.70	B	C
	ATOM	4405	O	THR	B	648	25.533	71.795	53.911	1.00	15.59	B	O
65	ATOM	4406	N	ASP	B	649	26.690	70.487	55.330	1.00	15.44	B	N
	ATOM	4407	CA	ASP	B	649	26.730	69.300	54.470	1.00	14.76	B	C
	ATOM	4408	CB	ASP	B	649	25.341	68.936	53.956	1.00	14.36	B	C
	ATOM	4409	CG	ASP	B	649	25.234	67.465	53.571	1.00	17.68	B	C
	ATOM	4410	OD1	ASP	B	649	26.225	66.725	53.765	1.00	18.01	B	O

	ATOM	4411	OD2	ASP	B	649	24.160	67.046	53.080	1.00	17.83	B	O
	ATOM	4412	C	ASP	B	649	27.696	69.422	53.288	1.00	16.34	B	C
	ATOM	4413	O	ASP	B	649	28.767	68.819	53.304	1.00	14.11	B	O
5	ATOM	4414	N	ASP	B	650	27.322	70.195	52.267	1.00	17.55	B	N
	ATOM	4415	CA	ASP	B	650	28.168	70.399	51.084	1.00	17.26	B	C
	ATOM	4416	CB	ASP	B	650	27.747	69.449	49.960	1.00	20.78	B	C
	ATOM	4417	CG	ASP	B	650	28.038	67.988	50.286	1.00	25.06	B	C
	ATOM	4418	OD1	ASP	B	650	27.088	67.219	50.545	1.00	27.39	B	O
10	ATOM	4419	OD2	ASP	B	650	29.224	67.601	50.281	1.00	28.96	B	O
	ATOM	4420	C	ASP	B	650	28.055	71.844	50.592	1.00	17.83	B	C
	ATOM	4421	O	ASP	B	650	27.316	72.134	49.657	1.00	17.47	B	O
	ATOM	4422	N	PRO	B	651	28.801	72.768	51.216	1.00	16.40	B	N
	ATOM	4423	CD	PRO	B	651	29.742	72.524	52.318	1.00	16.41	B	C
15	ATOM	4424	CA	PRO	B	651	28.761	74.179	50.825	1.00	17.82	B	C
	ATOM	4425	CB	PRO	B	651	29.918	74.812	51.606	1.00	17.55	B	C
	ATOM	4426	CG	PRO	B	651	30.159	73.903	52.735	1.00	17.57	B	C
	ATOM	4427	C	PRO	B	651	28.899	74.414	49.325	1.00	17.17	B	C
	ATOM	4428	O	PRO	B	651	28.157	75.205	48.748	1.00	17.62	B	O
20	ATOM	4429	N	MET	B	652	29.850	73.727	48.706	1.00	17.81	B	N
	ATOM	4430	CA	MET	B	652	30.096	73.867	47.276	1.00	22.40	B	C
	ATOM	4431	CB	MET	B	652	31.162	72.868	46.824	1.00	23.42	B	C
	ATOM	4432	CG	MET	B	652	31.537	73.003	45.355	1.00	27.33	B	C
	ATOM	4433	SD	MET	B	652	32.920	71.957	44.910	1.00	30.94	B	S
25	ATOM	4434	CE	MET	B	652	32.128	70.358	44.793	1.00	26.12	B	C
	ATOM	4435	C	MET	B	652	28.840	73.675	46.433	1.00	20.64	B	C
	ATOM	4436	O	MET	B	652	28.633	74.375	45.444	1.00	20.79	B	O
	ATOM	4437	N	GLN	B	653	28.003	72.731	46.846	1.00	19.89	B	N
	ATOM	4438	CA	GLN	B	653	26.772	72.410	46.143	1.00	19.12	B	C
30	ATOM	4439	CB	GLN	B	653	26.417	70.941	46.388	1.00	20.75	B	C
	ATOM	4440	CG	GLN	B	653	26.698	70.000	45.247	1.00	26.68	B	C
	ATOM	4441	CD	GLN	B	653	28.062	69.365	45.370	1.00	33.92	B	C
	ATOM	4442	OE1	GLN	B	653	29.004	69.746	44.676	1.00	38.77	B	O
	ATOM	4443	NE2	GLN	B	653	28.181	68.392	46.261	1.00	37.44	B	N
35	ATOM	4444	C	GLN	B	653	25.549	73.249	46.515	1.00	18.89	B	C
	ATOM	4445	O	GLN	B	653	24.704	73.518	45.660	1.00	18.97	B	O
	ATOM	4446	N	PHE	B	654	25.444	73.674	47.774	1.00	16.60	B	N
	ATOM	4447	CA	PHE	B	654	24.241	74.385	48.203	1.00	15.58	B	C
	ATOM	4448	CB	PHE	B	654	23.561	73.597	49.327	1.00	16.41	B	C
40	ATOM	4449	CG	PHE	B	654	23.543	72.099	49.122	1.00	16.09	B	C
	ATOM	4450	CD1	PHE	B	654	24.303	71.267	49.933	1.00	15.22	B	C
	ATOM	4451	CD2	PHE	B	654	22.716	71.522	48.160	1.00	14.08	B	C
	ATOM	4452	CE1	PHE	B	654	24.240	69.876	49.794	1.00	18.64	B	C
	ATOM	4453	CE2	PHE	B	654	22.645	70.132	48.012	1.00	16.69	B	C
45	ATOM	4454	CZ	PHE	B	654	23.409	69.307	48.832	1.00	17.09	B	C
	ATOM	4455	C	PHE	B	654	24.291	75.839	48.649	1.00	16.82	B	C
	ATOM	4456	O	PHE	B	654	23.237	76.463	48.788	1.00	15.81	B	O
	ATOM	4457	N	HIS	B	655	25.476	76.394	48.869	1.00	17.55	B	N
	ATOM	4458	CA	HIS	B	655	25.545	77.767	49.358	1.00	21.16	B	C
50	ATOM	4459	CB	HIS	B	655	26.370	77.775	50.653	1.00	20.44	B	C
	ATOM	4460	CG	HIS	B	655	25.902	76.757	51.653	1.00	17.42	B	C
	ATOM	4461	CD2	HIS	B	655	26.213	75.449	51.802	1.00	15.04	B	C
	ATOM	4462	ND1	HIS	B	655	24.906	77.019	52.569	1.00	17.27	B	N
	ATOM	4463	CE1	HIS	B	655	24.622	75.915	53.236	1.00	16.09	B	C
55	ATOM	4464	NE2	HIS	B	655	25.403	74.947	52.789	1.00	13.75	B	N
	ATOM	4465	C	HIS	B	655	26.037	78.825	48.374	1.00	22.40	B	C
	ATOM	4466	O	HIS	B	655	26.837	78.534	47.486	1.00	26.49	B	O
	ATOM	4467	N	PHE	B	656	25.547	80.055	48.549	1.00	25.00	B	N
	ATOM	4468	CA	PHE	B	656	25.883	81.190	47.679	1.00	25.44	B	C
60	ATOM	4469	CB	PHE	B	656	24.624	81.991	47.355	1.00	22.02	B	C
	ATOM	4470	CG	PHE	B	656	23.609	81.238	46.550	1.00	23.28	B	C
	ATOM	4471	CD1	PHE	B	656	22.495	80.684	47.162	1.00	23.99	B	C
	ATOM	4472	CD2	PHE	B	656	23.754	81.096	45.170	1.00	24.93	B	C
	ATOM	4473	CE1	PHE	B	656	21.536	79.999	46.415	1.00	22.32	B	C
65	ATOM	4474	CE2	PHE	B	656	22.800	80.413	44.413	1.00	20.18	B	C
	ATOM	4475	CZ	PHE	B	656	21.690	79.864	45.038	1.00	22.61	B	C
	ATOM	4476	C	PHE	B	656	26.921	82.183	48.208	1.00	28.36	B	C
	ATOM	4477	O	PHE	B	656	27.549	82.892	47.415	1.00	30.23	B	O
	ATOM	4478	N	THR	B	657	27.095	82.242	49.530	1.00	30.00	B	N

	ATOM	4479	CA	THR	B	657	28.025	83.191	50.148	1.00	28.50	B	C
	ATOM	4480	CB	THR	B	657	27.410	83.817	51.402	1.00	28.03	B	C
	ATOM	4481	OG1	THR	B	657	27.693	82.981	52.531	1.00	31.65	B	O
	ATOM	4482	CG2	THR	B	657	25.903	83.949	51.250	1.00	20.79	B	C
5	ATOM	4483	C	THR	B	657	29.346	82.578	50.557	1.00	31.49	B	C
	ATOM	4484	O	THR	B	657	29.574	81.382	50.338	1.00	33.75	B	O
	ATOM	4485	N	LYS	B	658	30.207	83.403	51.161	1.00	33.24	B	N
	ATOM	4486	CA	LYS	B	658	31.531	82.963	51.618	1.00	35.43	B	C
10	ATOM	4487	CB	LYS	B	658	32.539	84.124	51.559	1.00	40.92	B	C
	ATOM	4488	CG	LYS	B	658	33.113	84.424	50.169	1.00	46.39	B	C
	ATOM	4489	CD	LYS	B	658	34.420	83.651	49.890	1.00	49.00	B	C
	ATOM	4490	CE	LYS	B	658	34.769	83.655	48.394	1.00	46.56	B	C
	ATOM	4491	NZ	LYS	B	658	34.641	82.309	47.777	1.00	43.04	B	N
	ATOM	4492	C	LYS	B	658	31.478	82.431	53.049	1.00	35.45	B	C
15	ATOM	4493	O	LYS	B	658	32.472	81.907	53.566	1.00	35.24	B	O
	ATOM	4494	N	GLU	B	659	30.326	82.587	53.695	1.00	33.89	B	N
	ATOM	4495	CA	GLU	B	659	30.152	82.112	55.064	1.00	33.30	B	C
	ATOM	4496	CB	GLU	B	659	29.985	83.301	56.017	1.00	34.06	B	C
	ATOM	4497	CG	GLU	B	659	31.301	84.028	56.315	1.00	39.02	B	C
20	ATOM	4498	CD	GLU	B	659	31.220	84.952	57.528	1.00	43.06	B	C
	ATOM	4499	OE1	GLU	B	659	31.582	84.515	58.648	1.00	45.18	B	O
	ATOM	4500	OE2	GLU	B	659	30.795	86.118	57.359	1.00	46.98	B	O
	ATOM	4501	C	GLU	B	659	28.930	81.195	55.109	1.00	30.15	B	C
	ATOM	4502	O	GLU	B	659	27.884	81.542	55.670	1.00	28.93	B	O
25	ATOM	4503	N	PRO	B	660	29.050	80.006	54.491	1.00	28.87	B	N
	ATOM	4504	CD	PRO	B	660	30.253	79.562	53.761	1.00	25.68	B	C
	ATOM	4505	CA	PRO	B	660	27.962	79.018	54.444	1.00	25.34	B	C
	ATOM	4506	CB	PRO	B	660	28.587	77.793	53.766	1.00	25.14	B	C
	ATOM	4507	CG	PRO	B	660	30.053	78.089	53.627	1.00	28.81	B	C
30	ATOM	4508	C	PRO	B	660	27.319	78.672	55.785	1.00	21.34	B	C
	ATOM	4509	O	PRO	B	660	26.096	78.546	55.857	1.00	20.59	B	O
	ATOM	4510	N	LEU	B	661	28.117	78.511	56.841	1.00	18.18	B	N
	ATOM	4511	CA	LEU	B	661	27.537	78.186	58.148	1.00	16.57	B	C
	ATOM	4512	CB	LEU	B	661	28.625	77.961	59.203	1.00	14.44	B	C
35	ATOM	4513	CG	LEU	B	661	28.464	76.803	60.211	1.00	15.92	B	C
	ATOM	4514	CD1	LEU	B	661	28.853	77.289	61.592	1.00	10.09	B	C
	ATOM	4515	CD2	LEU	B	661	27.042	76.262	60.223	1.00	10.08	B	C
	ATOM	4516	C	LEU	B	661	26.625	79.330	58.586	1.00	15.47	B	C
	ATOM	4517	O	LEU	B	661	25.500	79.102	59.034	1.00	13.12	B	O
40	ATOM	4518	N	MET	B	662	27.110	80.560	58.443	1.00	15.29	B	N
	ATOM	4519	CA	MET	B	662	26.332	81.740	58.806	1.00	17.62	B	C
	ATOM	4520	CB	MET	B	662	27.171	83.009	58.650	1.00	19.51	B	C
	ATOM	4521	CG	MET	B	662	28.384	83.066	59.582	1.00	28.07	B	C
	ATOM	4522	SD	MET	B	662	27.942	82.897	61.350	1.00	34.60	B	S
45	ATOM	4523	CE	MET	B	662	26.750	84.263	61.532	1.00	29.39	B	C
	ATOM	4524	C	MET	B	662	25.116	81.820	57.902	1.00	16.66	B	C
	ATOM	4525	O	MET	B	662	24.062	82.320	58.299	1.00	19.11	B	O
	ATOM	4526	N	GLU	B	663	25.261	81.324	56.680	1.00	15.14	B	N
	ATOM	4527	CA	GLU	B	663	24.158	81.327	55.725	1.00	13.73	B	C
50	ATOM	4528	CB	GLU	B	663	24.664	80.911	54.345	1.00	17.62	B	C
	ATOM	4529	CG	GLU	B	663	23.801	81.377	53.185	1.00	18.10	B	C
	ATOM	4530	CD	GLU	B	663	24.319	80.880	51.845	1.00	20.90	B	C
	ATOM	4531	OE1	GLU	B	663	25.557	80.897	51.654	1.00	16.85	B	O
	ATOM	4532	OE2	GLU	B	663	23.489	80.470	50.992	1.00	17.10	B	O
55	ATOM	4533	C	GLU	B	663	23.050	80.376	56.183	1.00	14.50	B	C
	ATOM	4534	O	GLU	B	663	21.862	80.713	56.108	1.00	11.65	B	O
	ATOM	4535	N	GLU	B	664	23.433	79.190	56.660	1.00	13.15	B	N
	ATOM	4536	CA	GLU	B	664	22.450	78.216	57.138	1.00	14.96	B	C
	ATOM	4537	CB	GLU	B	664	23.115	76.883	57.494	1.00	13.70	B	C
60	ATOM	4538	CG	GLU	B	664	23.458	76.029	56.286	1.00	23.17	B	C
	ATOM	4539	CD	GLU	B	664	22.417	74.970	55.978	1.00	21.69	B	C
	ATOM	4540	OE1	GLU	B	664	21.339	74.978	56.610	1.00	22.77	B	O
	ATOM	4541	OE2	GLU	B	664	22.682	74.127	55.093	1.00	27.19	B	O
	ATOM	4542	C	GLU	B	664	21.712	78.740	58.358	1.00	13.65	B	C
65	ATOM	4543	O	GLU	B	664	20.500	78.557	58.481	1.00	16.39	B	O
	ATOM	4544	N	TYR	B	665	22.447	79.391	59.258	1.00	12.58	B	N
	ATOM	4545	CA	TYR	B	665	21.862	79.947	60.471	1.00	9.61	B	C
	ATOM	4546	CB	TYR	B	665	22.968	80.457	61.410	1.00	11.30	B	C

	ATOM	4547	CG	TYR	B	665	23.485	79.422	62.393	1.00	12.91	B	C
	ATOM	4548	CD1	TYR	B	665	24.468	78.508	62.022	1.00	10.84	B	C
	ATOM	4549	CE1	TYR	B	665	24.960	77.571	62.933	1.00	14.65	B	C
	ATOM	4550	CD2	TYR	B	665	23.003	79.371	63.705	1.00	14.74	B	C
5	ATOM	4551	CE2	TYR	B	665	23.493	78.434	64.627	1.00	12.85	B	C
	ATOM	4552	CZ	TYR	B	665	24.471	77.541	64.233	1.00	13.50	B	C
	ATOM	4553	OH	TYR	B	665	24.975	76.623	65.133	1.00	14.42	B	O
	ATOM	4554	C	TYR	B	665	20.914	81.087	60.128	1.00	8.91	B	C
	ATOM	4555	O	TYR	B	665	19.805	81.154	60.648	1.00	10.42	B	O
10	ATOM	4556	N	ALA	B	666	21.348	81.980	59.244	1.00	8.96	B	N
	ATOM	4557	CA	ALA	B	666	20.532	83.129	58.839	1.00	8.31	B	C
	ATOM	4558	CB	ALA	B	666	21.308	84.003	57.880	1.00	5.62	B	C
	ATOM	4559	C	ALA	B	666	19.197	82.759	58.218	1.00	10.25	B	C
	ATOM	4560	O	ALA	B	666	18.156	83.265	58.621	1.00	9.38	B	O
15	ATOM	4561	N	ILE	B	667	19.212	81.873	57.231	1.00	12.79	B	N
	ATOM	4562	CA	ILE	B	667	17.963	81.497	56.586	1.00	15.20	B	C
	ATOM	4563	CB	ILE	B	667	18.202	80.599	55.346	1.00	17.76	B	C
	ATOM	4564	CG2	ILE	B	667	19.001	79.374	55.745	1.00	24.29	B	C
	ATOM	4565	CG1	ILE	B	667	16.856	80.193	54.733	1.00	15.74	B	C
20	ATOM	4566	CD1	ILE	B	667	16.967	79.294	53.531	1.00	17.71	B	C
	ATOM	4567	C	ILE	B	667	17.059	80.773	57.569	1.00	15.27	B	C
	ATOM	4568	O	ILE	B	667	15.845	80.987	57.582	1.00	16.57	B	O
	ATOM	4569	N	ALA	B	668	17.639	79.911	58.393	1.00	12.75	B	N
	ATOM	4570	CA	ALA	B	668	16.837	79.202	59.378	1.00	12.93	B	C
25	ATOM	4571	CB	ALA	B	668	17.715	78.257	60.199	1.00	12.41	B	C
	ATOM	4572	C	ALA	B	668	16.150	80.218	60.292	1.00	11.34	B	C
	ATOM	4573	O	ALA	B	668	14.970	80.084	60.583	1.00	9.52	B	O
	ATOM	4574	N	ALA	B	669	16.889	81.235	60.730	1.00	11.18	B	N
	ATOM	4575	CA	ALA	B	669	16.333	82.268	61.605	1.00	11.13	B	C
30	ATOM	4576	CB	ALA	B	669	17.441	83.201	62.094	1.00	4.37	B	C
	ATOM	4577	C	ALA	B	669	15.249	83.078	60.896	1.00	13.38	B	C
	ATOM	4578	O	ALA	B	669	14.216	83.395	61.487	1.00	14.49	B	O
	ATOM	4579	N	GLN	B	670	15.486	83.406	59.627	1.00	15.46	B	N
	ATOM	4580	CA	GLN	B	670	14.535	84.188	58.844	1.00	15.21	B	C
35	ATOM	4581	CB	GLN	B	670	15.136	84.565	57.482	1.00	18.53	B	C
	ATOM	4582	CG	GLN	B	670	16.514	85.214	57.533	1.00	24.15	B	C
	ATOM	4583	CD	GLN	B	670	16.456	86.720	57.714	1.00	26.29	B	C
	ATOM	4584	OE1	GLN	B	670	15.449	87.263	58.177	1.00	30.69	B	O
	ATOM	4585	NE2	GLN	B	670	17.536	87.404	57.351	1.00	23.04	B	N
40	ATOM	4586	C	GLN	B	670	13.202	83.471	58.624	1.00	16.68	B	C
	ATOM	4587	O	GLN	B	670	12.148	83.998	58.990	1.00	18.16	B	O
	ATOM	4588	N	VAL	B	671	13.224	82.276	58.038	1.00	14.79	B	N
	ATOM	4589	CA	VAL	B	671	11.959	81.583	57.797	1.00	17.02	B	C
	ATOM	4590	CB	VAL	B	671	12.045	80.592	56.573	1.00	18.26	B	C
45	ATOM	4591	CG1	VAL	B	671	13.371	80.737	55.866	1.00	16.33	B	C
	ATOM	4592	CG2	VAL	B	671	11.824	79.169	57.012	1.00	17.04	B	C
	ATOM	4593	C	VAL	B	671	11.351	80.871	59.009	1.00	16.26	B	C
	ATOM	4594	O	VAL	B	671	10.132	80.761	59.110	1.00	16.79	B	O
	ATOM	4595	N	PHE	B	672	12.173	80.397	59.935	1.00	16.02	B	N
50	ATOM	4596	CA	PHE	B	672	11.622	79.731	61.112	1.00	17.75	B	C
	ATOM	4597	CB	PHE	B	672	12.532	78.587	61.543	1.00	18.31	B	C
	ATOM	4598	CG	PHE	B	672	12.501	77.422	60.600	1.00	18.58	B	C
	ATOM	4599	CD1	PHE	B	672	11.313	76.748	60.352	1.00	18.87	B	C
	ATOM	4600	CD2	PHE	B	672	13.646	77.027	59.924	1.00	20.38	B	C
55	ATOM	4601	CE1	PHE	B	672	11.261	75.693	59.439	1.00	19.58	B	C
	ATOM	4602	CE2	PHE	B	672	13.607	75.973	59.008	1.00	21.74	B	C
	ATOM	4603	CZ	PHE	B	672	12.409	75.305	58.766	1.00	20.23	B	C
	ATOM	4604	C	PHE	B	672	11.376	80.692	62.274	1.00	17.41	B	C
	ATOM	4605	O	PHE	B	672	10.911	80.291	63.329	1.00	18.99	B	O
60	ATOM	4606	N	LYS	B	673	11.686	81.966	62.051	1.00	18.10	B	N
	ATOM	4607	CA	LYS	B	673	11.490	83.025	63.033	1.00	17.47	B	C
	ATOM	4608	CB	LYS	B	673	9.996	83.326	63.188	1.00	15.36	B	C
	ATOM	4609	CG	LYS	B	673	9.553	84.541	62.381	1.00	22.66	B	C
	ATOM	4610	CD	LYS	B	673	8.215	84.342	61.677	1.00	29.79	B	C
65	ATOM	4611	CE	LYS	B	673	7.886	82.859	61.446	1.00	38.43	B	C
	ATOM	4612	NZ	LYS	B	673	6.557	82.622	60.768	1.00	41.35	B	N
	ATOM	4613	C	LYS	B	673	12.116	82.730	64.386	1.00	17.15	B	C
	ATOM	4614	O	LYS	B	673	11.471	82.853	65.425	1.00	15.43	B	O

	ATOM	4615	N	LEU	B	674	13.392	82.358	64.355	1.00	15.98	B	N
	ATOM	4616	CA	LEU	B	674	14.155	82.040	65.555	1.00	13.50	B	C
	ATOM	4617	CB	LEU	B	674	15.403	81.232	65.181	1.00	10.45	B	C
	ATOM	4618	CG	LEU	B	674	15.355	79.706	65.109	1.00	9.69	B	C
5	ATOM	4619	CD1	LEU	B	674	13.942	79.206	64.956	1.00	9.12	B	C
	ATOM	4620	CD2	LEU	B	674	16.197	79.264	63.950	1.00	13.46	B	C
	ATOM	4621	C	LEU	B	674	14.595	83.300	66.289	1.00	11.96	B	C
	ATOM	4622	O	LEU	B	674	14.950	84.290	65.664	1.00	14.70	B	O
10	ATOM	4623	N	SER	B	675	14.569	83.256	67.617	1.00	11.16	B	N
	ATOM	4624	CA	SER	B	675	15.007	84.381	68.440	1.00	11.94	B	C
	ATOM	4625	CB	SER	B	675	14.374	84.298	69.830	1.00	11.00	B	C
	ATOM	4626	OG	SER	B	675	14.945	83.229	70.570	1.00	12.19	B	O
	ATOM	4627	C	SER	B	675	16.521	84.242	68.571	1.00	12.19	B	C
	ATOM	4628	O	SER	B	675	17.083	83.184	68.257	1.00	9.51	B	O
15	ATOM	4629	N	THR	B	676	17.192	85.288	69.033	1.00	12.55	B	N
	ATOM	4630	CA	THR	B	676	18.633	85.191	69.180	1.00	14.91	B	C
	ATOM	4631	CB	THR	B	676	19.285	86.581	69.419	1.00	17.34	B	C
	ATOM	4632	OG1	THR	B	676	20.158	86.519	70.550	1.00	21.91	B	O
	ATOM	4633	CG2	THR	B	676	18.228	87.645	69.639	1.00	19.67	B	C
20	ATOM	4634	C	THR	B	676	18.976	84.212	70.308	1.00	15.09	B	C
	ATOM	4635	O	THR	B	676	20.088	83.692	70.366	1.00	18.90	B	O
	ATOM	4636	N	CYS	B	677	18.021	83.934	71.193	1.00	14.37	B	N
	ATOM	4637	CA	CYS	B	677	18.279	82.969	72.259	1.00	13.52	B	C
	ATOM	4638	CB	CYS	B	677	17.238	83.073	73.379	1.00	14.48	B	C
25	ATOM	4639	SG	CYS	B	677	17.572	81.989	74.800	1.00	11.60	B	S
	ATOM	4640	C	CYS	B	677	18.210	81.584	71.630	1.00	12.03	B	C
	ATOM	4641	O	CYS	B	677	18.992	80.699	71.973	1.00	11.28	B	O
	ATOM	4642	N	ASP	B	678	17.259	81.404	70.715	1.00	12.53	B	N
	ATOM	4643	CA	ASP	B	678	17.083	80.140	69.999	1.00	11.91	B	C
30	ATOM	4644	CB	ASP	B	678	15.916	80.232	69.012	1.00	14.76	B	C
	ATOM	4645	CG	ASP	B	678	14.567	80.350	69.696	1.00	18.02	B	C
	ATOM	4646	OD1	ASP	B	678	14.421	79.833	70.826	1.00	20.44	B	O
	ATOM	4647	OD2	ASP	B	678	13.649	80.959	69.097	1.00	16.03	B	O
	ATOM	4648	C	ASP	B	678	18.341	79.826	69.200	1.00	13.58	B	C
35	ATOM	4649	O	ASP	B	678	18.796	78.686	69.164	1.00	13.43	B	O
	ATOM	4650	N	MET	B	679	18.895	80.849	68.557	1.00	11.04	B	N
	ATOM	4651	CA	MET	B	679	20.087	80.692	67.738	1.00	11.40	B	C
	ATOM	4652	CB	MET	B	679	20.385	81.991	66.990	1.00	14.98	B	C
	ATOM	4653	CG	MET	B	679	19.342	82.387	65.971	1.00	19.47	B	C
40	ATOM	4654	SD	MET	B	679	19.945	83.681	64.882	1.00	27.62	B	S
	ATOM	4655	CE	MET	B	679	19.316	85.122	65.666	1.00	25.58	B	C
	ATOM	4656	C	MET	B	679	21.297	80.322	68.565	1.00	12.69	B	C
	ATOM	4657	O	MET	B	679	22.098	79.475	68.176	1.00	13.24	B	O
	ATOM	4658	N	CYS	B	680	21.447	80.982	69.706	1.00	15.78	B	N
45	ATOM	4659	CA	CYS	B	680	22.582	80.718	70.569	1.00	13.73	B	C
	ATOM	4660	CB	CYS	B	680	22.697	81.805	71.628	1.00	14.98	B	C
	ATOM	4661	SG	CYS	B	680	23.185	83.409	70.937	1.00	22.11	B	S
	ATOM	4662	C	CYS	B	680	22.459	79.348	71.214	1.00	14.36	B	C
	ATOM	4663	O	CYS	B	680	23.468	78.732	71.562	1.00	16.43	B	O
50	ATOM	4664	N	GLU	B	681	21.233	78.856	71.371	1.00	12.11	B	N
	ATOM	4665	CA	GLU	B	681	21.061	77.533	71.959	1.00	12.50	B	C
	ATOM	4666	CB	GLU	B	681	19.597	77.267	72.342	1.00	10.61	B	C
	ATOM	4667	CG	GLU	B	681	19.387	75.890	72.961	1.00	14.34	B	C
	ATOM	4668	CD	GLU	B	681	17.959	75.619	73.441	1.00	16.93	B	C
55	ATOM	4669	OE1	GLU	B	681	16.996	76.219	72.908	1.00	18.73	B	O
	ATOM	4670	OE2	GLU	B	681	17.804	74.783	74.357	1.00	17.10	B	O
	ATOM	4671	C	GLU	B	681	21.526	76.501	70.942	1.00	13.28	B	C
	ATOM	4672	O	GLU	B	681	22.130	75.492	71.306	1.00	16.21	B	O
	ATOM	4673	N	VAL	B	682	21.255	76.746	69.663	1.00	11.92	B	N
60	ATOM	4674	CA	VAL	B	682	21.689	75.807	68.630	1.00	8.73	B	C
	ATOM	4675	CB	VAL	B	682	21.093	76.156	67.242	1.00	10.35	B	C
	ATOM	4676	CG1	VAL	B	682	21.808	75.362	66.152	1.00	7.24	B	C
	ATOM	4677	CG2	VAL	B	682	19.598	75.852	67.226	1.00	4.43	B	C
	ATOM	4678	C	VAL	B	682	23.216	75.822	68.547	1.00	6.45	B	C
65	ATOM	4679	O	VAL	B	682	23.843	74.785	68.365	1.00	7.19	B	O
	ATOM	4680	N	ALA	B	683	23.809	77.002	68.686	1.00	4.83	B	N
	ATOM	4681	CA	ALA	B	683	25.260	77.127	68.648	1.00	3.63	B	C
	ATOM	4682	CB	ALA	B	683	25.655	78.578	68.776	1.00	3.93	B	C

	ATOM	4683	C	ALA	B	683	25.885	76.317	69.775	1.00	6.18	B	C
	ATOM	4684	O	ALA	B	683	26.848	75.585	69.564	1.00	9.07	B	O
	ATOM	4685	N	ARG	B	684	25.333	76.444	70.979	1.00	11.08	B	N
5	ATOM	4686	CA	ARG	B	684	25.849	75.704	72.132	1.00	11.91	B	C
	ATOM	4687	CB	ARG	B	684	25.047	76.046	73.383	1.00	11.38	B	C
	ATOM	4688	CG	ARG	B	684	25.516	75.329	74.629	1.00	14.28	B	C
	ATOM	4689	CD	ARG	B	684	24.977	75.993	75.899	1.00	16.61	B	C
	ATOM	4690	NE	ARG	B	684	25.573	75.411	77.097	1.00	15.00	B	N
10	ATOM	4691	CZ	ARG	B	684	25.141	74.296	77.679	1.00	14.02	B	C
	ATOM	4692	NH1	ARG	B	684	24.102	73.639	77.176	1.00	12.75	B	N
	ATOM	4693	NH2	ARG	B	684	25.765	73.827	78.751	1.00	10.89	B	N
	ATOM	4694	C	ARG	B	684	25.767	74.205	71.856	1.00	14.34	B	C
	ATOM	4695	O	ARG	B	684	26.737	73.472	72.067	1.00	17.67	B	O
15	ATOM	4696	N	ASN	B	685	24.608	73.750	71.385	1.00	12.96	B	N
	ATOM	4697	CA	ASN	B	685	24.421	72.341	71.063	1.00	11.72	B	C
	ATOM	4698	CB	ASN	B	685	23.064	72.128	70.397	1.00	14.10	B	C
	ATOM	4699	CG	ASN	B	685	21.917	72.164	71.383	1.00	15.34	B	C
	ATOM	4700	OD1	ASN	B	685	22.114	72.429	72.568	1.00	18.14	B	O
20	ATOM	4701	ND2	ASN	B	685	20.710	71.899	70.897	1.00	10.24	B	N
	ATOM	4702	C	ASN	B	685	25.516	71.889	70.103	1.00	12.02	B	C
	ATOM	4703	O	ASN	B	685	26.128	70.844	70.291	1.00	9.86	B	O
	ATOM	4704	N	SER	B	686	25.756	72.684	69.067	1.00	13.62	B	N
	ATOM	4705	CA	SER	B	686	26.776	72.350	68.079	1.00	11.49	B	C
25	ATOM	4706	CB	SER	B	686	26.849	73.449	67.007	1.00	6.11	B	C
	ATOM	4707	OG	SER	B	686	27.779	74.459	67.333	1.00	7.19	B	O
	ATOM	4708	C	SER	B	686	28.144	72.107	68.728	1.00	11.60	B	C
	ATOM	4709	O	SER	B	686	28.848	71.171	68.347	1.00	9.26	B	O
	ATOM	4710	N	VAL	B	687	28.518	72.922	69.716	1.00	13.22	B	N
30	ATOM	4711	CA	VAL	B	687	29.807	72.732	70.387	1.00	11.65	B	C
	ATOM	4712	CB	VAL	B	687	30.207	73.940	71.265	1.00	13.63	B	C
	ATOM	4713	CG1	VAL	B	687	31.618	73.727	71.815	1.00	10.54	B	C
	ATOM	4714	CG2	VAL	B	687	30.155	75.226	70.458	1.00	6.57	B	C
	ATOM	4715	C	VAL	B	687	29.788	71.496	71.275	1.00	12.33	B	C
35	ATOM	4716	O	VAL	B	687	30.759	70.746	71.329	1.00	15.89	B	O
	ATOM	4717	N	LEU	B	688	28.684	71.279	71.976	1.00	14.08	B	N
	ATOM	4718	CA	LEU	B	688	28.576	70.119	72.851	1.00	13.81	B	C
	ATOM	4719	CB	LEU	B	688	27.239	70.144	73.598	1.00	13.90	B	C
	ATOM	4720	CG	LEU	B	688	27.070	71.205	74.688	1.00	14.45	B	C
40	ATOM	4721	CD1	LEU	B	688	25.617	71.245	75.161	1.00	11.30	B	C
	ATOM	4722	CD2	LEU	B	688	27.994	70.878	75.835	1.00	10.43	B	C
	ATOM	4723	C	LEU	B	688	28.680	68.820	72.055	1.00	15.57	B	C
	ATOM	4724	O	LEU	B	688	29.244	67.822	72.520	1.00	18.52	B	O
	ATOM	4725	N	GLN	B	689	28.140	68.838	70.845	1.00	15.15	B	N
45	ATOM	4726	CA	GLN	B	689	28.136	67.658	69.986	1.00	13.54	B	C
	ATOM	4727	CB	GLN	B	689	27.009	67.793	68.959	1.00	9.01	B	C
	ATOM	4728	CG	GLN	B	689	27.135	66.869	67.774	1.00	7.08	B	C
	ATOM	4729	CD	GLN	B	689	25.923	66.896	66.883	1.00	6.56	B	C
	ATOM	4730	OE1	GLN	B	689	25.628	65.928	66.195	1.00	7.35	B	O
50	ATOM	4731	NE2	GLN	B	689	25.213	68.010	66.888	1.00	7.19	B	N
	ATOM	4732	C	GLN	B	689	29.443	67.304	69.254	1.00	13.61	B	C
	ATOM	4733	O	GLN	B	689	29.760	66.128	69.096	1.00	10.75	B	O
	ATOM	4734	N	CYS	B	690	30.199	68.308	68.822	1.00	13.16	B	N
	ATOM	4735	CA	CYS	B	690	31.417	68.056	68.060	1.00	16.18	B	C
55	ATOM	4736	CB	CYS	B	690	31.946	69.362	67.496	1.00	16.43	B	C
	ATOM	4737	SG	CYS	B	690	32.581	70.435	68.744	1.00	18.43	B	S
	ATOM	4738	C	CYS	B	690	32.551	67.316	68.759	1.00	18.39	B	C
	ATOM	4739	O	CYS	B	690	32.426	66.917	69.911	1.00	22.82	B	O
	ATOM	4740	N	GLY	B	691	33.663	67.141	68.043	1.00	16.97	B	N
60	ATOM	4741	CA	GLY	B	691	34.805	66.426	68.584	1.00	16.85	B	C
	ATOM	4742	C	GLY	B	691	35.950	67.289	69.087	1.00	20.13	B	C
	ATOM	4743	O	GLY	B	691	37.046	66.780	69.356	1.00	21.69	B	O
	ATOM	4744	N	ILE	B	692	35.717	68.591	69.214	1.00	16.79	B	N
	ATOM	4745	CA	ILE	B	692	36.747	69.491	69.712	1.00	16.10	B	C
	ATOM	4746	CB	ILE	B	692	36.181	70.914	69.871	1.00	17.84	B	C
65	ATOM	4747	CG2	ILE	B	692	37.195	71.825	70.570	1.00	18.28	B	C
	ATOM	4748	CG1	ILE	B	692	35.825	71.472	68.491	1.00	18.11	B	C
	ATOM	4749	CD1	ILE	B	692	35.573	72.983	68.470	1.00	18.41	B	C
	ATOM	4750	C	ILE	B	692	37.242	68.972	71.064	1.00	15.85	B	C

	ATOM	4751	O	ILE	B	692	36.531	68.236	71.748	1.00	15.56	B	O
	ATOM	4752	N	SER	B	693	38.457	69.350	71.454	1.00	16.38	B	N
	ATOM	4753	CA	SER	B	693	39.012	68.889	72.720	1.00	16.99	B	C
	ATOM	4754	CB	SER	B	693	40.508	69.188	72.773	1.00	17.14	B	C
5	ATOM	4755	OG	SER	B	693	40.754	70.578	72.898	1.00	20.20	B	O
	ATOM	4756	C	SER	B	693	38.321	69.490	73.942	1.00	19.19	B	C
	ATOM	4757	O	SER	B	693	37.697	70.551	73.863	1.00	18.27	B	O
	ATOM	4758	N	HIS	B	694	38.444	68.797	75.073	1.00	22.32	B	N
10	ATOM	4759	CA	HIS	B	694	37.847	69.223	76.330	1.00	23.38	B	C
	ATOM	4760	CB	HIS	B	694	38.157	68.213	77.430	1.00	24.30	B	C
	ATOM	4761	CG	HIS	B	694	37.666	68.629	78.784	1.00	29.51	B	C
	ATOM	4762	CD2	HIS	B	694	36.436	68.553	79.346	1.00	28.54	B	C
	ATOM	4763	ND1	HIS	B	694	38.483	69.218	79.727	1.00	27.36	B	N
	ATOM	4764	CE1	HIS	B	694	37.777	69.488	80.810	1.00	26.36	B	C
15	ATOM	4765	NE2	HIS	B	694	36.532	69.095	80.606	1.00	27.06	B	N
	ATOM	4766	C	HIS	B	694	38.343	70.593	76.764	1.00	25.61	B	C
	ATOM	4767	O	HIS	B	694	37.551	71.476	77.094	1.00	28.73	B	O
	ATOM	4768	N	GLU	B	695	39.656	70.771	76.770	1.00	28.09	B	N
20	ATOM	4769	CA	GLU	B	695	40.229	72.044	77.175	1.00	30.74	B	C
	ATOM	4770	CB	GLU	B	695	41.751	72.030	76.992	1.00	35.92	B	C
	ATOM	4771	CG	GLU	B	695	42.451	73.294	77.494	1.00	46.52	B	C
	ATOM	4772	CD	GLU	B	695	43.540	73.795	76.545	1.00	54.21	B	C
	ATOM	4773	OE1	GLU	B	695	44.716	73.401	76.726	1.00	56.64	B	O
	ATOM	4774	OE2	GLU	B	695	43.221	74.582	75.619	1.00	56.54	B	O
25	ATOM	4775	C	GLU	B	695	39.616	73.186	76.378	1.00	29.45	B	C
	ATOM	4776	O	GLU	B	695	39.207	74.196	76.945	1.00	31.84	B	O
	ATOM	4777	N	GLU	B	696	39.539	73.025	75.062	1.00	27.85	B	N
	ATOM	4778	CA	GLU	B	696	38.978	74.070	74.215	1.00	25.70	B	C
	ATOM	4779	CB	GLU	B	696	39.225	73.744	72.753	1.00	29.87	B	C
30	ATOM	4780	CG	GLU	B	696	40.373	74.519	72.149	1.00	35.94	B	C
	ATOM	4781	CD	GLU	B	696	41.000	73.769	70.999	1.00	38.15	B	C
	ATOM	4782	OE1	GLU	B	696	41.010	74.315	69.870	1.00	38.61	B	O
	ATOM	4783	OE2	GLU	B	696	41.472	72.630	71.231	1.00	37.52	B	O
	ATOM	4784	C	GLU	B	696	37.491	74.271	74.436	1.00	22.01	B	C
35	ATOM	4785	O	GLU	B	696	37.017	75.401	74.496	1.00	19.70	B	O
	ATOM	4786	N	LYS	B	697	36.751	73.173	74.546	1.00	21.60	B	N
	ATOM	4787	CA	LYS	B	697	35.312	73.261	74.774	1.00	20.81	B	C
	ATOM	4788	CB	LYS	B	697	34.707	71.863	74.914	1.00	16.83	B	C
	ATOM	4789	CG	LYS	B	697	34.269	71.240	73.593	1.00	18.01	B	C
40	ATOM	4790	CD	LYS	B	697	33.376	70.022	73.808	1.00	11.14	B	C
	ATOM	4791	CE	LYS	B	697	33.156	69.253	72.518	1.00	12.32	B	C
	ATOM	4792	NZ	LYS	B	697	32.209	68.119	72.700	1.00	14.81	B	N
	ATOM	4793	C	LYS	B	697	35.053	74.070	76.044	1.00	22.59	B	C
	ATOM	4794	O	LYS	B	697	34.205	74.961	76.059	1.00	24.37	B	O
45	ATOM	4795	N	ALA	B	698	35.795	73.762	77.106	1.00	23.81	B	N
	ATOM	4796	CA	ALA	B	698	35.650	74.463	78.377	1.00	23.60	B	C
	ATOM	4797	CB	ALA	B	698	36.647	73.915	79.387	1.00	23.35	B	C
	ATOM	4798	C	ALA	B	698	35.864	75.962	78.199	1.00	25.31	B	C
	ATOM	4799	O	ALA	B	698	35.257	76.778	78.896	1.00	26.97	B	O
50	ATOM	4800	N	LYS	B	699	36.727	76.321	77.255	1.00	25.43	B	N
	ATOM	4801	CA	LYS	B	699	37.038	77.716	76.980	1.00	22.86	B	C
	ATOM	4802	CB	LYS	B	699	38.374	77.802	76.235	1.00	25.54	B	C
	ATOM	4803	CG	LYS	B	699	38.593	79.088	75.451	1.00	32.06	B	C
	ATOM	4804	CD	LYS	B	699	39.914	79.048	74.676	1.00	36.21	B	C
55	ATOM	4805	CE	LYS	B	699	39.937	80.067	73.535	1.00	35.67	B	C
	ATOM	4806	NZ	LYS	B	699	40.193	81.459	74.010	1.00	33.57	B	N
	ATOM	4807	C	LYS	B	699	35.939	78.418	76.185	1.00	22.98	B	C
	ATOM	4808	O	LYS	B	699	35.805	79.642	76.257	1.00	22.50	B	O
	ATOM	4809	N	PHE	B	700	35.152	77.652	75.432	1.00	19.48	B	N
60	ATOM	4810	CA	PHE	B	700	34.071	78.238	74.634	1.00	18.17	B	C
	ATOM	4811	CB	PHE	B	700	33.850	77.464	73.321	1.00	16.38	B	C
	ATOM	4812	CG	PHE	B	700	35.063	77.366	72.442	1.00	12.83	B	C
	ATOM	4813	CD1	PHE	B	700	36.022	78.367	72.427	1.00	14.56	B	C
	ATOM	4814	CD2	PHE	B	700	35.245	76.256	71.627	1.00	13.66	B	C
65	ATOM	4815	CE1	PHE	B	700	37.148	78.262	71.618	1.00	11.37	B	C
	ATOM	4816	CE2	PHE	B	700	36.366	76.143	70.817	1.00	11.29	B	C
	ATOM	4817	CZ	PHE	B	700	37.319	77.151	70.815	1.00	10.09	B	C
	ATOM	4818	C	PHE	B	700	32.752	78.234	75.385	1.00	17.60	B	C

	ATOM	4819	O	PHE	B	700	31.968	79.170	75.277	1.00	13.64	B	O
	ATOM	4820	N	LEU	B	701	32.513	77.161	76.134	1.00	20.08	B	N
	ATOM	4821	CA	LEU	B	701	31.265	76.987	76.874	1.00	22.25	B	C
5	ATOM	4822	CB	LEU	B	701	30.736	75.564	76.650	1.00	18.42	B	C
	ATOM	4823	CG	LEU	B	701	30.544	75.057	75.221	1.00	16.66	B	C
	ATOM	4824	CD1	LEU	B	701	30.041	73.630	75.261	1.00	15.56	B	C
	ATOM	4825	CD2	LEU	B	701	29.548	75.938	74.489	1.00	15.39	B	C
	ATOM	4826	C	LEU	B	701	31.305	77.247	78.382	1.00	24.02	B	C
10	ATOM	4827	O	LEU	B	701	30.255	77.412	79.006	1.00	26.88	B	O
	ATOM	4828	N	GLY	B	702	32.501	77.272	78.963	1.00	25.50	B	N
	ATOM	4829	CA	GLY	B	702	32.640	77.468	80.399	1.00	26.46	B	C
	ATOM	4830	C	GLY	B	702	33.234	76.194	80.976	1.00	26.94	B	C
	ATOM	4831	O	GLY	B	702	33.165	75.149	80.333	1.00	28.74	B	O
	ATOM	4832	N	ASN	B	703	33.796	76.251	82.179	1.00	26.21	B	N
15	ATOM	4833	CA	ASN	B	703	34.423	75.068	82.773	1.00	28.67	B	C
	ATOM	4834	CB	ASN	B	703	35.311	75.490	83.947	1.00	31.89	B	C
	ATOM	4835	CG	ASN	B	703	36.542	76.253	83.498	1.00	34.81	B	C
	ATOM	4836	OD1	ASN	B	703	37.438	75.695	82.866	1.00	37.46	B	O
	ATOM	4837	ND2	ASN	B	703	36.588	77.537	83.820	1.00	37.95	B	N
20	ATOM	4838	C	ASN	B	703	33.518	73.919	83.225	1.00	26.51	B	C
	ATOM	4839	O	ASN	B	703	33.990	72.800	83.412	1.00	26.60	B	O
	ATOM	4840	N	ASN	B	704	32.228	74.180	83.385	1.00	25.55	B	N
	ATOM	4841	CA	ASN	B	704	31.297	73.152	83.845	1.00	23.32	B	C
	ATOM	4842	CB	ASN	B	704	30.433	73.715	84.970	1.00	30.28	B	C
25	ATOM	4843	CG	ASN	B	704	30.794	73.149	86.322	1.00	35.16	B	C
	ATOM	4844	OD1	ASN	B	704	30.171	72.192	86.796	1.00	36.12	B	O
	ATOM	4845	ND2	ASN	B	704	31.806	73.739	86.958	1.00	35.95	B	N
	ATOM	4846	C	ASN	B	704	30.380	72.604	82.768	1.00	21.18	B	C
	ATOM	4847	O	ASN	B	704	29.406	71.920	83.071	1.00	19.39	B	O
30	ATOM	4848	N	TYR	B	705	30.697	72.896	81.514	1.00	21.00	B	N
	ATOM	4849	CA	TYR	B	705	29.878	72.463	80.386	1.00	21.77	B	C
	ATOM	4850	CB	TYR	B	705	30.605	72.791	79.068	1.00	21.60	B	C
	ATOM	4851	CG	TYR	B	705	31.641	71.771	78.634	1.00	20.44	B	C
	ATOM	4852	CD1	TYR	B	705	32.986	71.931	78.965	1.00	17.26	B	C
35	ATOM	4853	CE1	TYR	B	705	33.937	70.996	78.568	1.00	18.81	B	C
	ATOM	4854	CD2	TYR	B	705	31.271	70.646	77.891	1.00	18.37	B	C
	ATOM	4855	CE2	TYR	B	705	32.210	69.708	77.492	1.00	18.96	B	C
	ATOM	4856	CZ	TYR	B	705	33.542	69.885	77.830	1.00	20.22	B	C
	ATOM	4857	OH	TYR	B	705	34.471	68.957	77.411	1.00	20.37	B	O
40	ATOM	4858	C	TYR	B	705	29.419	70.998	80.396	1.00	21.84	B	C
	ATOM	4859	O	TYR	B	705	28.359	70.681	79.851	1.00	21.61	B	O
	ATOM	4860	N	LEU	B	706	30.189	70.109	81.018	1.00	20.68	B	N
	ATOM	4861	CA	LEU	B	706	29.811	68.697	81.049	1.00	22.15	B	C
	ATOM	4862	CB	LEU	B	706	31.019	67.830	81.423	1.00	19.58	B	C
45	ATOM	4863	CG	LEU	B	706	32.098	67.625	80.349	1.00	19.96	B	C
	ATOM	4864	CD1	LEU	B	706	33.335	67.010	80.987	1.00	15.77	B	C
	ATOM	4865	CD2	LEU	B	706	31.573	66.730	79.229	1.00	16.24	B	C
	ATOM	4866	C	LEU	B	706	28.646	68.409	82.001	1.00	24.50	B	C
	ATOM	4867	O	LEU	B	706	28.011	67.352	81.916	1.00	23.89	B	O
50	ATOM	4868	N	GLU	B	707	28.363	69.347	82.903	1.00	25.57	B	N
	ATOM	4869	CA	GLU	B	707	27.271	69.185	83.859	1.00	26.55	B	C
	ATOM	4870	CB	GLU	B	707	27.498	70.090	85.072	1.00	30.85	B	C
	ATOM	4871	CG	GLU	B	707	28.595	69.606	86.009	1.00	36.28	B	C
	ATOM	4872	CD	GLU	B	707	28.409	68.153	86.406	1.00	39.86	B	C
55	ATOM	4873	OE1	GLU	B	707	29.295	67.325	86.096	1.00	40.09	B	O
	ATOM	4874	OE2	GLU	B	707	27.372	67.838	87.028	1.00	41.58	B	O
	ATOM	4875	C	GLU	B	707	25.947	69.539	83.188	1.00	24.98	B	C
	ATOM	4876	O	GLU	B	707	25.860	70.525	82.464	1.00	24.11	B	O
	ATOM	4877	N	GLU	B	708	24.917	68.739	83.438	1.00	26.11	B	N
60	ATOM	4878	CA	GLU	B	708	23.607	68.968	82.835	1.00	27.35	B	C
	ATOM	4879	CB	GLU	B	708	22.834	67.645	82.732	1.00	28.96	B	C
	ATOM	4880	CG	GLU	B	708	23.704	66.406	82.855	1.00	33.98	B	C
	ATOM	4881	CD	GLU	B	708	23.459	65.395	81.746	1.00	34.00	B	C
	ATOM	4882	OE1	GLU	B	708	22.383	64.770	81.742	1.00	29.84	B	O
65	ATOM	4883	OE2	GLU	B	708	24.349	65.219	80.883	1.00	37.16	B	O
	ATOM	4884	C	GLU	B	708	22.750	69.997	83.573	1.00	25.77	B	C
	ATOM	4885	O	GLU	B	708	22.800	70.098	84.796	1.00	27.13	B	O
	ATOM	4886	N	GLY	B	709	21.961	70.755	82.815	1.00	22.69	B	N

5	ATOM	4887	CA	GLY	B	709	21.090	71.753	83.406	1.00	17.91	B	C
	ATOM	4888	C	GLY	B	709	21.718	73.125	83.495	1.00	17.34	B	C
	ATOM	4889	O	GLY	B	709	22.816	73.345	82.989	1.00	21.29	B	O
	ATOM	4890	N	PRO	B	710	21.044	74.078	84.146	1.00	15.70	B	N
	ATOM	4891	CD	PRO	B	710	19.731	73.890	84.785	1.00	14.81	B	C
	ATOM	4892	CA	PRO	B	710	21.540	75.449	84.303	1.00	16.31	B	C
	ATOM	4893	CB	PRO	B	710	20.506	76.100	85.220	1.00	14.34	B	C
	ATOM	4894	CG	PRO	B	710	19.276	75.293	85.039	1.00	13.75	B	C
10	ATOM	4895	C	PRO	B	710	22.942	75.536	84.896	1.00	17.37	B	C
	ATOM	4896	O	PRO	B	710	23.709	76.452	84.594	1.00	18.42	B	O
	ATOM	4897	N	ILE	B	711	23.266	74.576	85.751	1.00	18.91	B	N
	ATOM	4898	CA	ILE	B	711	24.549	74.557	86.416	1.00	16.93	B	C
	ATOM	4899	CB	ILE	B	711	24.603	73.393	87.424	1.00	21.01	B	C
15	ATOM	4900	CG2	ILE	B	711	24.881	72.088	86.710	1.00	24.43	B	C
	ATOM	4901	CG1	ILE	B	711	25.664	73.680	88.489	1.00	24.79	B	C
	ATOM	4902	CD1	ILE	B	711	25.486	75.022	89.204	1.00	22.52	B	C
	ATOM	4903	C	ILE	B	711	25.719	74.472	85.449	1.00	19.35	B	C
	ATOM	4904	O	ILE	B	711	26.784	75.036	85.709	1.00	20.45	B	O
20	ATOM	4905	N	GLY	B	712	25.518	73.789	84.324	1.00	17.57	B	N
	ATOM	4906	CA	GLY	B	712	26.587	73.652	83.352	1.00	16.86	B	C
	ATOM	4907	C	GLY	B	712	26.680	74.747	82.298	1.00	18.45	B	C
	ATOM	4908	O	GLY	B	712	27.507	74.660	81.394	1.00	20.70	B	O
	ATOM	4909	N	ASN	B	713	25.852	75.781	82.397	1.00	17.57	B	N
25	ATOM	4910	CA	ASN	B	713	25.902	76.849	81.412	1.00	16.77	B	C
	ATOM	4911	CB	ASN	B	713	24.509	77.134	80.853	1.00	14.33	B	C
	ATOM	4912	CG	ASN	B	713	24.495	78.338	79.920	1.00	15.77	B	C
	ATOM	4913	OD1	ASN	B	713	23.745	79.300	80.127	1.00	11.46	B	O
	ATOM	4914	ND2	ASN	B	713	25.336	78.294	78.888	1.00	12.98	B	N
30	ATOM	4915	C	ASN	B	713	26.480	78.143	81.945	1.00	18.09	B	C
	ATOM	4916	O	ASN	B	713	26.059	78.638	82.987	1.00	22.38	B	O
	ATOM	4917	N	ASP	B	714	27.444	78.696	81.218	1.00	19.91	B	N
	ATOM	4918	CA	ASP	B	714	28.058	79.962	81.596	1.00	18.70	B	C
	ATOM	4919	CB	ASP	B	714	29.580	79.842	81.597	1.00	19.95	B	C
35	ATOM	4920	CG	ASP	B	714	30.268	81.102	82.094	1.00	22.51	B	C
	ATOM	4921	OD1	ASP	B	714	29.596	82.149	82.236	1.00	22.25	B	O
	ATOM	4922	OD2	ASP	B	714	31.493	81.044	82.340	1.00	25.68	B	O
	ATOM	4923	C	ASP	B	714	27.613	80.947	80.529	1.00	17.80	B	C
	ATOM	4924	O	ASP	B	714	28.234	81.041	79.468	1.00	19.23	B	O
40	ATOM	4925	N	ILE	B	715	26.531	81.669	80.805	1.00	16.42	B	N
	ATOM	4926	CA	ILE	B	715	25.988	82.625	79.852	1.00	15.41	B	C
	ATOM	4927	CB	ILE	B	715	24.760	83.365	80.439	1.00	15.87	B	C
	ATOM	4928	CG2	ILE	B	715	25.191	84.291	81.576	1.00	15.25	B	C
	ATOM	4929	CG1	ILE	B	715	24.047	84.150	79.334	1.00	15.22	B	C
45	ATOM	4930	CD1	ILE	B	715	22.803	84.874	79.808	1.00	13.45	B	C
	ATOM	4931	C	ILE	B	715	27.006	83.649	79.380	1.00	17.02	B	C
	ATOM	4932	O	ILE	B	715	26.869	84.212	78.302	1.00	17.67	B	O
	ATOM	4933	N	ARG	B	716	28.035	83.893	80.177	1.00	18.95	B	N
	ATOM	4934	CA	ARG	B	716	29.043	84.869	79.791	1.00	21.15	B	C
50	ATOM	4935	CB	ARG	B	716	30.041	85.085	80.928	1.00	24.00	B	C
	ATOM	4936	CG	ARG	B	716	29.575	86.068	81.990	1.00	30.64	B	C
	ATOM	4937	CD	ARG	B	716	30.530	86.117	83.174	1.00	34.42	B	C
	ATOM	4938	NE	ARG	B	716	30.936	84.785	83.619	1.00	39.56	B	N
	ATOM	4939	CZ	ARG	B	716	31.986	84.548	84.400	1.00	41.56	B	C
55	ATOM	4940	NH1	ARG	B	716	32.740	85.555	84.824	1.00	41.49	B	N
	ATOM	4941	NH2	ARG	B	716	32.285	83.306	84.757	1.00	39.96	B	N
	ATOM	4942	C	ARG	B	716	29.781	84.383	78.555	1.00	22.81	B	C
	ATOM	4943	O	ARG	B	716	30.399	85.168	77.832	1.00	21.83	B	O
	ATOM	4944	N	LYS	B	717	29.701	83.081	78.309	1.00	23.02	B	N
60	ATOM	4945	CA	LYS	B	717	30.384	82.479	77.174	1.00	21.63	B	C
	ATOM	4946	CB	LYS	B	717	31.261	81.323	77.665	1.00	22.38	B	C
	ATOM	4947	CG	LYS	B	717	32.687	81.737	78.011	1.00	23.92	B	C
	ATOM	4948	CD	LYS	B	717	33.332	80.726	78.937	1.00	28.98	B	C
	ATOM	4949	CE	LYS	B	717	34.794	81.053	79.193	1.00	31.76	B	C
65	ATOM	4950	NZ	LYS	B	717	35.488	79.922	79.909	1.00	33.96	B	N
	ATOM	4951	C	LYS	B	717	29.457	81.987	76.064	1.00	20.24	B	C
	ATOM	4952	O	LYS	B	717	29.817	82.038	74.889	1.00	20.19	B	O
	ATOM	4953	N	THR	B	718	28.264	81.528	76.433	1.00	20.14	B	N
	ATOM	4954	CA	THR	B	718	27.308	81.004	75.463	1.00	17.77	B	C

	ATOM	4955	CB	THR	B	718	26.632	79.744	75.998	1.00	17.80	B	C
	ATOM	4956	OG1	THR	B	718	25.757	80.107	77.074	1.00	18.19	B	O
	ATOM	4957	CG2	THR	B	718	27.671	78.749	76.494	1.00	14.04	B	C
	ATOM	4958	C	THR	B	718	26.188	81.944	75.019	1.00	17.89	B	C
5	ATOM	4959	O	THR	B	718	25.618	81.760	73.945	1.00	18.92	B	O
	ATOM	4960	N	ASN	B	719	25.869	82.942	75.832	1.00	16.97	B	N
	ATOM	4961	CA	ASN	B	719	24.779	83.875	75.521	1.00	15.47	B	C
	ATOM	4962	CB	ASN	B	719	25.018	84.608	74.199	1.00	15.10	B	C
	ATOM	4963	CG	ASN	B	719	24.339	85.982	74.158	1.00	15.92	B	C
10	ATOM	4964	OD1	ASN	B	719	24.512	86.807	75.056	1.00	19.91	B	O
	ATOM	4965	ND2	ASN	B	719	23.565	86.226	73.112	1.00	15.55	B	N
	ATOM	4966	C	ASN	B	719	23.436	83.150	75.466	1.00	14.53	B	C
	ATOM	4967	O	ASN	B	719	22.521	83.559	74.752	1.00	13.32	B	O
	ATOM	4968	N	VAL	B	720	23.329	82.066	76.228	1.00	14.12	B	N
15	ATOM	4969	CA	VAL	B	720	22.100	81.291	76.307	1.00	12.81	B	C
	ATOM	4970	CB	VAL	B	720	22.384	79.774	76.236	1.00	14.83	B	C
	ATOM	4971	CG1	VAL	B	720	21.097	78.993	76.434	1.00	15.31	B	C
	ATOM	4972	CG2	VAL	B	720	23.005	79.422	74.896	1.00	13.32	B	C
	ATOM	4973	C	VAL	B	720	21.473	81.618	77.657	1.00	13.81	B	C
20	ATOM	4974	O	VAL	B	720	22.104	81.449	78.696	1.00	17.06	B	O
	ATOM	4975	N	ALA	B	721	20.233	82.093	77.639	1.00	13.72	B	N
	ATOM	4976	CA	ALA	B	721	19.524	82.460	78.860	1.00	14.19	B	C
	ATOM	4977	CB	ALA	B	721	18.117	82.935	78.511	1.00	12.61	B	C
	ATOM	4978	C	ALA	B	721	19.449	81.310	79.849	1.00	11.96	B	C
25	ATOM	4979	O	ALA	B	721	19.294	80.161	79.459	1.00	13.11	B	O
	ATOM	4980	N	GLN	B	722	19.555	81.617	81.136	1.00	12.78	B	N
	ATOM	4981	CA	GLN	B	722	19.475	80.570	82.149	1.00	13.81	B	C
	ATOM	4982	CB	GLN	B	722	20.021	81.076	83.484	1.00	14.66	B	C
	ATOM	4983	CG	GLN	B	722	21.546	81.073	83.561	1.00	15.60	B	C
30	ATOM	4984	CD	GLN	B	722	22.145	79.676	83.444	1.00	19.93	B	C
	ATOM	4985	OE1	GLN	B	722	22.646	79.113	84.422	1.00	19.49	B	O
	ATOM	4986	NE2	GLN	B	722	22.100	79.114	82.244	1.00	19.13	B	N
	ATOM	4987	C	GLN	B	722	18.016	80.135	82.282	1.00	13.95	B	C
	ATOM	4988	O	GLN	B	722	17.716	79.036	82.765	1.00	14.65	B	O
35	ATOM	4989	N	ILE	B	723	17.109	80.999	81.841	1.00	11.57	B	N
	ATOM	4990	CA	ILE	B	723	15.693	80.691	81.876	1.00	11.93	B	C
	ATOM	4991	CB	ILE	B	723	14.850	81.897	81.433	1.00	11.15	B	C
	ATOM	4992	CG2	ILE	B	723	13.403	81.467	81.202	1.00	10.28	B	C
	ATOM	4993	CG1	ILE	B	723	14.922	82.991	82.497	1.00	12.70	B	C
40	ATOM	4994	CD1	ILE	B	723	14.092	84.225	82.183	1.00	11.02	B	C
	ATOM	4995	C	ILE	B	723	15.441	79.540	80.906	1.00	14.71	B	C
	ATOM	4996	O	ILE	B	723	14.615	78.652	81.169	1.00	17.40	B	O
	ATOM	4997	N	ARG	B	724	16.157	79.556	79.782	1.00	13.11	B	N
	ATOM	4998	CA	ARG	B	724	16.009	78.513	78.769	1.00	11.55	B	C
45	ATOM	4999	CB	ARG	B	724	16.690	78.948	77.459	1.00	12.12	B	C
	ATOM	5000	CG	ARG	B	724	16.616	77.939	76.304	1.00	6.50	B	C
	ATOM	5001	CD	ARG	B	724	15.192	77.660	75.845	1.00	8.45	B	C
	ATOM	5002	NE	ARG	B	724	14.530	78.844	75.296	1.00	13.77	B	N
	ATOM	5003	CZ	ARG	B	724	14.567	79.213	74.014	1.00	12.95	B	C
50	ATOM	5004	NH1	ARG	B	724	15.238	78.492	73.120	1.00	13.29	B	N
	ATOM	5005	NH2	ARG	B	724	13.937	80.311	73.625	1.00	8.90	B	N
	ATOM	5006	C	ARG	B	724	16.610	77.214	79.285	1.00	9.02	B	C
	ATOM	5007	O	ARG	B	724	16.017	76.145	79.134	1.00	8.99	B	O
	ATOM	5008	N	MET	B	725	17.783	77.298	79.903	1.00	5.96	B	N
55	ATOM	5009	CA	MET	B	725	18.419	76.099	80.440	1.00	8.31	B	C
	ATOM	5010	CB	MET	B	725	19.769	76.441	81.074	1.00	6.32	B	C
	ATOM	5011	CG	MET	B	725	20.820	76.943	80.098	1.00	4.67	B	C
	ATOM	5012	SD	MET	B	725	21.386	75.675	78.933	1.00	14.21	B	S
	ATOM	5013	CE	MET	B	725	21.945	74.403	80.005	1.00	8.77	B	C
60	ATOM	5014	C	MET	B	725	17.519	75.432	81.483	1.00	10.20	B	C
	ATOM	5015	O	MET	B	725	17.349	74.209	81.483	1.00	12.60	B	O
	ATOM	5016	N	ALA	B	726	16.932	76.234	82.366	1.00	11.50	B	N
	ATOM	5017	CA	ALA	B	726	16.060	75.695	83.405	1.00	11.38	B	C
	ATOM	5018	CB	ALA	B	726	15.661	76.785	84.380	1.00	11.00	B	C
65	ATOM	5019	C	ALA	B	726	14.823	75.068	82.790	1.00	13.29	B	C
	ATOM	5020	O	ALA	B	726	14.388	73.984	83.208	1.00	13.72	B	O
	ATOM	5021	N	TYR	B	727	14.251	75.744	81.797	1.00	11.06	B	N
	ATOM	5022	CA	TYR	B	727	13.065	75.216	81.143	1.00	8.87	B	C

5	ATOM	5023	CB	TYR	B	727	12.566	76.174	80.063	1.00	9.36	B	C
	ATOM	5024	CG	TYR	B	727	11.482	75.557	79.215	1.00	9.48	B	C
	ATOM	5025	CD1	TYR	B	727	11.781	74.953	78.000	1.00	10.40	B	C
	ATOM	5026	CE1	TYR	B	727	10.785	74.348	77.232	1.00	9.26	B	C
	ATOM	5027	CD2	TYR	B	727	10.158	75.542	79.644	1.00	8.27	B	C
	ATOM	5028	CE2	TYR	B	727	9.156	74.938	78.881	1.00	8.61	B	C
	ATOM	5029	CZ	TYR	B	727	9.478	74.346	77.680	1.00	8.81	B	C
	ATOM	5030	OH	TYR	B	727	8.489	73.755	76.929	1.00	11.54	B	O
10	ATOM	5031	C	TYR	B	727	13.372	73.861	80.517	1.00	10.04	B	C
	ATOM	5032	O	TYR	B	727	12.662	72.885	80.751	1.00	10.30	B	O
	ATOM	5033	N	ARG	B	728	14.430	73.797	79.717	1.00	12.42	B	N
	ATOM	5034	CA	ARG	B	728	14.808	72.538	79.069	1.00	13.66	B	C
15	ATOM	5035	CB	ARG	B	728	16.114	72.706	78.285	1.00	10.07	B	C
	ATOM	5036	CG	ARG	B	728	16.023	73.648	77.100	1.00	10.03	B	C
	ATOM	5037	CD	ARG	B	728	15.062	73.116	76.046	1.00	9.68	B	C
	ATOM	5038	NE	ARG	B	728	15.082	73.940	74.844	1.00	11.39	B	N
20	ATOM	5039	CZ	ARG	B	728	14.164	73.882	73.886	1.00	8.65	B	C
	ATOM	5040	NH1	ARG	B	728	13.153	73.034	73.995	1.00	6.69	B	N
	ATOM	5041	NH2	ARG	B	728	14.263	74.672	72.824	1.00	7.94	B	N
	ATOM	5042	C	ARG	B	728	15.008	71.442	80.105	1.00	14.11	B	C
25	ATOM	5043	O	ARG	B	728	14.481	70.333	79.982	1.00	15.35	B	O
	ATOM	5044	N	TYR	B	729	15.772	71.763	81.139	1.00	13.47	B	N
	ATOM	5045	CA	TYR	B	729	16.067	70.795	82.176	1.00	12.95	B	C
	ATOM	5046	CB	TYR	B	729	17.005	71.420	83.197	1.00	14.48	B	C
30	ATOM	5047	CG	TYR	B	729	17.625	70.416	84.138	1.00	19.47	B	C
	ATOM	5048	CD1	TYR	B	729	18.246	69.261	83.656	1.00	19.25	B	C
	ATOM	5049	CE1	TYR	B	729	18.818	68.340	84.531	1.00	20.95	B	C
	ATOM	5050	CD2	TYR	B	729	17.591	70.623	85.521	1.00	20.52	B	C
35	ATOM	5051	CE2	TYR	B	729	18.157	69.716	86.399	1.00	21.01	B	C
	ATOM	5052	CZ	TYR	B	729	18.768	68.579	85.905	1.00	24.67	B	C
	ATOM	5053	OH	TYR	B	729	19.332	67.688	86.802	1.00	29.63	B	O
	ATOM	5054	C	TYR	B	729	14.834	70.252	82.870	1.00	13.03	B	C
40	ATOM	5055	O	TYR	B	729	14.651	69.040	82.968	1.00	13.85	B	O
	ATOM	5056	N	GLU	B	730	13.981	71.149	83.352	1.00	12.92	B	N
	ATOM	5057	CA	GLU	B	730	12.778	70.731	84.057	1.00	12.27	B	C
	ATOM	5058	CB	GLU	B	730	12.034	71.949	84.607	1.00	12.18	B	C
45	ATOM	5059	CG	GLU	B	730	12.891	72.850	85.467	1.00	12.25	B	C
	ATOM	5060	CD	GLU	B	730	12.204	74.152	85.789	1.00	16.97	B	C
	ATOM	5061	OE1	GLU	B	730	12.865	75.061	86.335	1.00	21.39	B	O
	ATOM	5062	OE2	GLU	B	730	10.997	74.273	85.497	1.00	20.15	B	O
50	ATOM	5063	C	GLU	B	730	11.830	69.898	83.211	1.00	12.09	B	C
	ATOM	5064	O	GLU	B	730	11.298	68.892	83.690	1.00	12.21	B	O
	ATOM	5065	N	THR	B	731	11.609	70.294	81.958	1.00	12.33	B	N
	ATOM	5066	CA	THR	B	731	10.691	69.520	81.140	1.00	11.36	B	C
55	ATOM	5067	CB	THR	B	731	10.166	70.337	79.924	1.00	14.29	B	C
	ATOM	5068	OG1	THR	B	731	10.667	69.789	78.707	1.00	16.88	B	O
	ATOM	5069	CG2	THR	B	731	10.557	71.787	80.043	1.00	6.49	B	C
	ATOM	5070	C	THR	B	731	11.294	68.179	80.722	1.00	11.28	B	C
60	ATOM	5071	O	THR	B	731	10.565	67.221	80.471	1.00	10.75	B	O
	ATOM	5072	N	TRP	B	732	12.622	68.088	80.690	1.00	11.99	B	N
	ATOM	5073	CA	TRP	B	732	13.275	66.822	80.343	1.00	10.29	B	C
	ATOM	5074	CB	TRP	B	732	14.756	67.046	80.031	1.00	9.68	B	C
65	ATOM	5075	CG	TRP	B	732	15.527	65.794	79.689	1.00	10.32	B	C
	ATOM	5076	CD2	TRP	B	732	16.948	65.604	79.797	1.00	8.70	B	C
	ATOM	5077	CE2	TRP	B	732	17.234	64.292	79.351	1.00	7.12	B	C
	ATOM	5078	CE3	TRP	B	732	18.008	66.419	80.229	1.00	9.29	B	C
70	ATOM	5079	CD1	TRP	B	732	15.024	64.616	79.196	1.00	12.01	B	C
	ATOM	5080	NE1	TRP	B	732	16.048	63.708	78.988	1.00	5.59	B	N
	ATOM	5081	CZ2	TRP	B	732	18.534	63.775	79.322	1.00	7.17	B	C
	ATOM	5082	CZ3	TRP	B	732	19.311	65.900	80.198	1.00	7.55	B	C
75	ATOM	5083	CH2	TRP	B	732	19.556	64.589	79.747	1.00	7.12	B	C
	ATOM	5084	C	TRP	B	732	13.135	65.872	81.533	1.00	13.31	B	C
	ATOM	5085	O	TRP	B	732	12.801	64.692	81.370	1.00	13.80	B	O
	ATOM	5086	N	CYS	B	733	13.384	66.389	82.735	1.00	15.44	B	N
80	ATOM	5087	CA	CYS	B	733	13.265	65.576	83.956	1.00	16.50	B	C
	ATOM	5088	CB	CYS	B	733	13.712	66.382	85.179	1.00	12.89	B	C
	ATOM	5089	SG	CYS	B	733	15.500	66.506	85.361	1.00	16.07	B	S
	ATOM	5090	C	CYS	B	733	11.822	65.108	84.159	1.00	13.08	B	C

	ATOM	5091	O	CYS	B	733	11.571	63.960	84.533	1.00	14.32	B	O
	ATOM	5092	N	TYR	B	734	10.877	66.001	83.902	1.00	11.71	B	N
	ATOM	5093	CA	TYR	B	734	9.472	65.678	84.060	1.00	12.82	B	C
5	ATOM	5094	CB	TYR	B	734	8.623	66.894	83.689	1.00	14.29	B	C
	ATOM	5095	CG	TYR	B	734	7.160	66.772	84.045	1.00	15.46	B	C
	ATOM	5096	CD1	TYR	B	734	6.664	67.277	85.246	1.00	18.31	B	C
	ATOM	5097	CE1	TYR	B	734	5.309	67.186	85.568	1.00	17.37	B	C
	ATOM	5098	CD2	TYR	B	734	6.267	66.169	83.175	1.00	21.15	B	C
10	ATOM	5099	CE2	TYR	B	734	4.910	66.072	83.485	1.00	24.38	B	C
	ATOM	5100	CZ	TYR	B	734	4.439	66.583	84.681	1.00	23.04	B	C
	ATOM	5101	OH	TYR	B	734	3.093	66.503	84.969	1.00	27.16	B	O
	ATOM	5102	C	TYR	B	734	9.058	64.477	83.218	1.00	15.24	B	C
	ATOM	5103	O	TYR	B	734	8.313	63.618	83.682	1.00	20.19	B	O
	ATOM	5104	N	GLU	B	735	9.543	64.403	81.981	1.00	16.37	B	N
15	ATOM	5105	CA	GLU	B	735	9.178	63.300	81.099	1.00	14.47	B	C
	ATOM	5106	CB	GLU	B	735	9.670	63.570	79.671	1.00	16.47	B	C
	ATOM	5107	CG	GLU	B	735	8.960	64.722	78.955	1.00	14.89	B	C
	ATOM	5108	CD	GLU	B	735	7.451	64.537	78.869	1.00	13.08	B	C
	ATOM	5109	OE1	GLU	B	735	6.993	63.455	78.448	1.00	10.71	B	O
20	ATOM	5110	OE2	GLU	B	735	6.721	65.489	79.221	1.00	17.15	B	O
	ATOM	5111	C	GLU	B	735	9.740	61.974	81.592	1.00	12.99	B	C
	ATOM	5112	O	GLU	B	735	9.047	60.955	81.606	1.00	10.55	B	O
	ATOM	5113	N	LEU	B	736	11.005	61.985	81.990	1.00	14.10	B	N
25	ATOM	5114	CA	LEU	B	736	11.647	60.771	82.490	1.00	15.98	B	C
	ATOM	5115	CB	LEU	B	736	13.112	61.046	82.818	1.00	12.43	B	C
	ATOM	5116	CG	LEU	B	736	14.015	61.256	81.606	1.00	14.27	B	C
	ATOM	5117	CD1	LEU	B	736	15.277	62.013	82.016	1.00	13.21	B	C
	ATOM	5118	CD2	LEU	B	736	14.351	59.906	80.997	1.00	11.10	B	C
30	ATOM	5119	C	LEU	B	736	10.933	60.269	83.739	1.00	16.11	B	C
	ATOM	5120	O	LEU	B	736	10.707	59.071	83.910	1.00	16.18	B	O
	ATOM	5121	N	ASN	B	737	10.573	61.202	84.608	1.00	16.97	B	N
	ATOM	5122	CA	ASN	B	737	9.886	60.869	85.840	1.00	17.62	B	C
	ATOM	5123	CB	ASN	B	737	9.692	62.134	86.672	1.00	22.09	B	C
35	ATOM	5124	CG	ASN	B	737	9.219	61.834	88.063	1.00	23.84	B	C
	ATOM	5125	OD1	ASN	B	737	9.847	61.064	88.782	1.00	26.42	B	O
	ATOM	5126	ND2	ASN	B	737	8.100	62.434	88.455	1.00	26.93	B	N
	ATOM	5127	C	ASN	B	737	8.542	60.187	85.617	1.00	17.46	B	C
	ATOM	5128	O	ASN	B	737	8.152	59.309	86.385	1.00	18.76	B	O
40	ATOM	5129	N	LEU	B	738	7.830	60.586	84.568	1.00	19.52	B	N
	ATOM	5130	CA	LEU	B	738	6.528	59.989	84.278	1.00	19.30	B	C
	ATOM	5131	CB	LEU	B	738	5.935	60.580	82.997	1.00	15.95	B	C
	ATOM	5132	CG	LEU	B	738	5.409	62.010	83.105	1.00	16.49	B	C
	ATOM	5133	CD1	LEU	B	738	5.028	62.520	81.723	1.00	14.89	B	C
45	ATOM	5134	CD2	LEU	B	738	4.212	62.040	84.035	1.00	13.09	B	C
	ATOM	5135	C	LEU	B	738	6.671	58.484	84.123	1.00	18.81	B	C
	ATOM	5136	O	LEU	B	738	5.782	57.718	84.491	1.00	19.98	B	O
	ATOM	5137	N	ILE	B	739	7.803	58.068	83.576	1.00	19.35	B	N
	ATOM	5138	CA	ILE	B	739	8.070	56.657	83.366	1.00	19.46	B	C
	ATOM	5139	CB	ILE	B	739	9.239	56.458	82.387	1.00	18.57	B	C
50	ATOM	5140	CG2	ILE	B	739	9.568	54.973	82.261	1.00	12.73	B	C
	ATOM	5141	CG1	ILE	B	739	8.861	57.039	81.019	1.00	20.39	B	C
	ATOM	5142	CD1	ILE	B	739	10.044	57.347	80.123	1.00	22.95	B	C
	ATOM	5143	C	ILE	B	739	8.394	55.964	84.680	1.00	21.40	B	C
55	ATOM	5144	O	ILE	B	739	7.896	54.869	84.946	1.00	20.40	B	O
	ATOM	5145	N	ALA	B	740	9.227	56.602	85.500	1.00	19.60	B	N
	ATOM	5146	CA	ALA	B	740	9.606	56.039	86.792	1.00	18.93	B	C
	ATOM	5147	CB	ALA	B	740	10.570	56.974	87.504	1.00	16.82	B	C
	ATOM	5148	C	ALA	B	740	8.363	55.809	87.651	1.00	20.57	B	C
60	ATOM	5149	O	ALA	B	740	8.228	54.773	88.296	1.00	19.09	B	O
	ATOM	5150	N	GLU	B	741	7.454	56.779	87.645	1.00	21.07	B	N
	ATOM	5151	CA	GLU	B	741	6.221	56.681	88.412	1.00	21.19	B	C
	ATOM	5152	CB	GLU	B	741	5.444	57.993	88.322	1.00	24.66	B	C
	ATOM	5153	CG	GLU	B	741	6.212	59.204	88.819	1.00	27.93	B	C
	ATOM	5154	CD	GLU	B	741	6.232	59.301	90.330	1.00	29.79	B	C
65	ATOM	5155	OE1	GLU	B	741	7.336	59.306	90.912	1.00	31.54	B	O
	ATOM	5156	OE2	GLU	B	741	5.143	59.374	90.936	1.00	33.00	B	O
	ATOM	5157	C	GLU	B	741	5.329	55.538	87.937	1.00	22.02	B	C
	ATOM	5158	O	GLU	B	741	4.686	54.870	88.747	1.00	23.72	B	O

	ATOM	5159	N	GLY B 742	5.284	55.317	86.626	1.00	20.74	B	N
	ATOM	5160	CA	GLY B 742	4.456	54.251	86.093	1.00	20.67	B	C
	ATOM	5161	C	GLY B 742	4.952	52.883	86.506	1.00	24.49	B	C
	ATOM	5162	O	GLY B 742	4.239	51.890	86.384	1.00	27.37	B	O
5	ATOM	5163	N	LEU B 743	6.183	52.834	87.001	1.00	27.85	B	N
	ATOM	5164	CA	LEU B 743	6.811	51.590	87.434	1.00	30.10	B	C
	ATOM	5165	CB	LEU B 743	8.217	51.483	86.834	1.00	28.45	B	C
	ATOM	5166	CG	LEU B 743	8.481	50.752	85.507	1.00	27.17	B	C
	ATOM	5167	CD1	LEU B 743	7.198	50.498	84.743	1.00	25.35	B	C
10	ATOM	5168	CD2	LEU B 743	9.440	51.592	84.684	1.00	24.52	B	C
	ATOM	5169	C	LEU B 743	6.918	51.516	88.959	1.00	33.57	B	C
	ATOM	5170	O	LEU B 743	7.244	50.469	89.514	1.00	34.38	B	O
	ATOM	5171	N	LYS B 744	6.645	52.633	89.627	1.00	36.47	B	N
	ATOM	5172	CA	LYS B 744	6.724	52.719	91.086	1.00	39.04	B	C
15	ATOM	5173	CB	LYS B 744	6.317	54.122	91.550	1.00	33.95	B	C
	ATOM	5174	CG	LYS B 744	7.436	54.922	92.184	1.00	30.97	B	C
	ATOM	5175	CD	LYS B 744	6.990	55.525	93.500	1.00	33.43	B	C
	ATOM	5176	CE	LYS B 744	7.221	57.027	93.530	1.00	36.86	B	C
	ATOM	5177	NZ	LYS B 744	6.488	57.679	94.661	1.00	37.96	B	N
20	ATOM	5178	C	LYS B 744	5.871	51.686	91.823	1.00	44.39	B	C
	ATOM	5179	O	LYS B 744	4.854	51.212	91.305	1.00	44.72	B	O
	ATOM	5180	N	SER B 745	6.298	51.354	93.042	1.00	49.49	B	N
	ATOM	5181	CA	SER B 745	5.600	50.398	93.898	1.00	53.13	B	C
	ATOM	5182	CB	SER B 745	5.423	49.062	93.174	1.00	53.77	B	C
25	ATOM	5183	OG	SER B 745	4.069	48.648	93.223	1.00	56.23	B	O
	ATOM	5184	C	SER B 745	6.358	50.180	95.211	1.00	56.69	B	C
	ATOM	5185	O	SER B 745	6.983	49.103	95.369	1.00	58.68	B	O
	ATOM	5186	OT	SER B 745	6.318	51.093	96.070	1.00	59.71	B	O
	ATOM	5187	CB	SER D 106	-10.786	60.660	13.610	1.00	39.90	D	C
30	ATOM	5188	OG	SER D 106	-11.853	60.326	14.483	1.00	42.15	D	O
	ATOM	5189	C	SER D 106	-12.831	60.945	12.191	1.00	39.78	D	C
	ATOM	5190	O	SER D 106	-13.570	61.854	12.582	1.00	41.94	D	O
	ATOM	5191	N	SER D 106	-10.900	62.503	11.944	1.00	36.59	D	N
	ATOM	5192	CA	SER D 106	-11.308	61.094	12.234	1.00	39.23	D	C
35	ATOM	5193	N	PRO D 107	-13.322	59.787	11.725	1.00	37.89	D	N
	ATOM	5194	CD	PRO D 107	-12.542	58.629	11.260	1.00	36.48	D	C
	ATOM	5195	CA	PRO D 107	-14.767	59.545	11.636	1.00	38.32	D	C
	ATOM	5196	CB	PRO D 107	-14.871	58.205	10.898	1.00	34.81	D	C
	ATOM	5197	CG	PRO D 107	-13.504	57.909	10.377	1.00	33.29	D	C
40	ATOM	5198	C	PRO D 107	-15.520	59.514	12.970	1.00	39.37	D	C
	ATOM	5199	O	PRO D 107	-16.724	59.771	13.007	1.00	40.53	D	O
	ATOM	5200	N	THR D 108	-14.818	59.217	14.061	1.00	40.71	D	N
	ATOM	5201	CA	THR D 108	-15.462	59.120	15.374	1.00	40.53	D	C
	ATOM	5202	CB	THR D 108	-14.697	58.135	16.297	1.00	41.63	D	C
45	ATOM	5203	OG1	THR D 108	-13.605	58.816	16.933	1.00	39.77	D	O
	ATOM	5204	CG2	THR D 108	-14.162	56.946	15.484	1.00	40.89	D	C
	ATOM	5205	C	THR D 108	-15.672	60.428	16.142	1.00	38.99	D	C
	ATOM	5206	O	THR D 108	-16.097	60.402	17.298	1.00	38.98	D	O
	ATOM	5207	N	TYR D 109	-15.389	61.565	15.512	1.00	37.51	D	N
50	ATOM	5208	CA	TYR D 109	-15.567	62.852	16.184	1.00	34.38	D	C
	ATOM	5209	CB	TYR D 109	-14.354	63.752	15.933	1.00	31.56	D	C
	ATOM	5210	CG	TYR D 109	-13.247	63.541	16.940	1.00	33.80	D	C
	ATOM	5211	CD1	TYR D 109	-12.943	62.261	17.414	1.00	35.23	D	C
	ATOM	5212	CE1	TYR D 109	-11.932	62.059	18.352	1.00	32.17	D	C
55	ATOM	5213	CD2	TYR D 109	-12.510	64.614	17.431	1.00	32.16	D	C
	ATOM	5214	CE2	TYR D 109	-11.499	64.422	18.368	1.00	32.23	D	C
	ATOM	5215	CZ	TYR D 109	-11.215	63.144	18.824	1.00	32.24	D	C
	ATOM	5216	OH	TYR D 109	-10.208	62.954	19.746	1.00	32.98	D	O
	ATOM	5217	C	TYR D 109	-16.842	63.562	15.741	1.00	31.88	D	C
60	ATOM	5218	O	TYR D 109	-17.046	64.741	16.031	1.00	31.02	D	O
	ATOM	5219	N	GLN D 110	-17.702	62.831	15.047	1.00	30.44	D	N
	ATOM	5220	CA	GLN D 110	-18.961	63.382	14.557	1.00	32.43	D	C
	ATOM	5221	CB	GLN D 110	-19.754	62.299	13.812	1.00	33.58	D	C
	ATOM	5222	CG	GLN D 110	-20.939	62.826	13.010	1.00	33.76	D	C
65	ATOM	5223	CD	GLN D 110	-20.507	63.716	11.859	1.00	33.74	D	C
	ATOM	5224	OE1	GLN D 110	-19.326	63.757	11.503	1.00	34.77	D	O
	ATOM	5225	NE2	GLN D 110	-21.461	64.437	11.271	1.00	31.58	D	N
	ATOM	5226	C	GLN D 110	-19.808	63.907	15.703	1.00	29.90	D	C

	ATOM	5227	O	GLN	D	110	-20.683	64.755	15.517	1.00	31.13	D	O
	ATOM	5228	N	THR	D	111	-19.525	63.402	16.893	1.00	29.18	D	N
	ATOM	5229	CA	THR	D	111	-20.287	63.758	18.073	1.00	26.63	D	C
	ATOM	5230	CB	THR	D	111	-20.717	62.460	18.776	1.00	26.52	D	C
5	ATOM	5231	OG1	THR	D	111	-21.960	62.668	19.443	1.00	30.08	D	O
	ATOM	5232	CG2	THR	D	111	-19.657	62.007	19.770	1.00	27.11	D	C
	ATOM	5233	C	THR	D	111	-19.556	64.685	19.053	1.00	24.89	D	C
	ATOM	5234	O	THR	D	111	-20.137	65.137	20.040	1.00	23.41	D	O
	ATOM	5235	N	VAL	D	112	-18.288	64.971	18.759	1.00	22.88	D	N
10	ATOM	5236	CA	VAL	D	112	-17.440	65.825	19.596	1.00	19.75	D	C
	ATOM	5237	CB	VAL	D	112	-15.965	65.348	19.555	1.00	15.91	D	C
	ATOM	5238	CG1	VAL	D	112	-15.125	66.188	20.496	1.00	13.00	D	C
	ATOM	5239	CG2	VAL	D	112	-15.873	63.873	19.916	1.00	11.16	D	C
	ATOM	5240	C	VAL	D	112	-17.445	67.301	19.186	1.00	19.15	D	C
15	ATOM	5241	O	VAL	D	112	-17.084	67.635	18.064	1.00	22.26	D	O
	ATOM	5242	N	PRO	D	113	-17.845	68.202	20.094	1.00	18.31	D	N
	ATOM	5243	CD	PRO	D	113	-18.336	67.955	21.456	1.00	16.66	D	C
	ATOM	5244	CA	PRO	D	113	-17.869	69.632	19.773	1.00	17.80	D	C
	ATOM	5245	CB	PRO	D	113	-18.649	70.258	20.933	1.00	14.66	D	C
20	ATOM	5246	CG	PRO	D	113	-19.267	69.106	21.669	1.00	14.17	D	C
	ATOM	5247	C	PRO	D	113	-16.468	70.214	19.674	1.00	18.68	D	C
	ATOM	5248	O	PRO	D	113	-15.489	69.584	20.065	1.00	19.76	D	O
	ATOM	5249	N	ASP	D	114	-16.378	71.423	19.140	1.00	22.35	D	N
	ATOM	5250	CA	ASP	D	114	-15.100	72.095	19.010	1.00	23.20	D	C
25	ATOM	5251	CB	ASP	D	114	-15.222	73.309	18.086	1.00	27.14	D	C
	ATOM	5252	CG	ASP	D	114	-15.362	72.930	16.624	1.00	32.81	D	C
	ATOM	5253	OD1	ASP	D	114	-14.884	71.843	16.231	1.00	36.57	D	O
	ATOM	5254	OD2	ASP	D	114	-15.951	73.729	15.863	1.00	33.41	D	O
	ATOM	5255	C	ASP	D	114	-14.694	72.584	20.390	1.00	22.25	D	C
30	ATOM	5256	O	ASP	D	114	-15.547	72.866	21.224	1.00	24.03	D	O
	ATOM	5257	N	PHE	D	115	-13.391	72.671	20.627	1.00	19.55	D	N
	ATOM	5258	CA	PHE	D	115	-12.865	73.182	21.884	1.00	17.22	D	C
	ATOM	5259	CB	PHE	D	115	-13.080	72.180	23.032	1.00	15.91	D	C
	ATOM	5260	CG	PHE	D	115	-12.270	70.919	22.926	1.00	12.17	D	C
35	ATOM	5261	CD1	PHE	D	115	-12.735	69.840	22.184	1.00	11.82	D	C
	ATOM	5262	CD2	PHE	D	115	-11.066	70.790	23.610	1.00	7.69	D	C
	ATOM	5263	CE1	PHE	D	115	-12.010	68.653	22.130	1.00	9.31	D	C
	ATOM	5264	CE2	PHE	D	115	-10.339	69.606	23.557	1.00	6.14	D	C
	ATOM	5265	CZ	PHE	D	115	-10.812	68.540	22.819	1.00	6.21	D	C
40	ATOM	5266	C	PHE	D	115	-11.391	73.497	21.663	1.00	17.03	D	C
	ATOM	5267	O	PHE	D	115	-10.766	72.945	20.759	1.00	18.77	D	O
	ATOM	5268	N	GLN	D	116	-10.842	74.403	22.462	1.00	15.50	D	N
	ATOM	5269	CA	GLN	D	116	-9.451	74.796	22.305	1.00	14.41	D	C
	ATOM	5270	CB	GLN	D	116	-9.228	76.153	22.962	1.00	16.39	D	C
45	ATOM	5271	CG	GLN	D	116	-10.049	77.263	22.325	1.00	16.16	D	C
	ATOM	5272	CD	GLN	D	116	-9.816	78.615	22.969	1.00	21.84	D	C
	ATOM	5273	OE1	GLN	D	116	-10.418	78.937	23.995	1.00	21.89	D	O
	ATOM	5274	NE2	GLN	D	116	-8.940	79.422	22.363	1.00	18.50	D	N
	ATOM	5275	C	GLN	D	116	-8.476	73.773	22.853	1.00	16.48	D	C
50	ATOM	5276	O	GLN	D	116	-8.659	73.237	23.946	1.00	20.95	D	O
	ATOM	5277	N	ARG	D	117	-7.432	73.504	22.081	1.00	16.57	D	N
	ATOM	5278	CA	ARG	D	117	-6.422	72.537	22.474	1.00	15.61	D	C
	ATOM	5279	CB	ARG	D	117	-6.280	71.467	21.394	1.00	15.66	D	C
	ATOM	5280	CG	ARG	D	117	-7.394	70.430	21.407	1.00	18.68	D	C
55	ATOM	5281	CD	ARG	D	117	-7.458	69.697	20.094	1.00	19.57	D	C
	ATOM	5282	NE	ARG	D	117	-8.487	68.662	20.072	1.00	19.67	D	N
	ATOM	5283	CZ	ARG	D	117	-9.714	68.842	19.597	1.00	18.19	D	C
	ATOM	5284	NH1	ARG	D	117	-10.067	70.018	19.111	1.00	19.26	D	N
	ATOM	5285	NH2	ARG	D	117	-10.578	67.838	19.576	1.00	20.08	D	N
60	ATOM	5286	C	ARG	D	117	-5.070	73.181	22.713	1.00	15.31	D	C
	ATOM	5287	O	ARG	D	117	-4.816	74.305	22.281	1.00	12.20	D	O
	ATOM	5288	N	VAL	D	118	-4.203	72.459	23.412	1.00	14.88	D	N
	ATOM	5289	CA	VAL	D	118	-2.868	72.953	23.682	1.00	18.11	D	C
	ATOM	5290	CB	VAL	D	118	-2.567	73.037	25.217	1.00	18.73	D	C
65	ATOM	5291	CG1	VAL	D	118	-3.696	72.420	26.009	1.00	16.26	D	C
	ATOM	5292	CG2	VAL	D	118	-1.233	72.377	25.542	1.00	12.15	D	C
	ATOM	5293	C	VAL	D	118	-1.891	72.018	23.001	1.00	19.66	D	C
	ATOM	5294	O	VAL	D	118	-1.879	70.814	23.253	1.00	18.62	D	O

	ATOM	5295	N	GLN	D	119	-1.082	72.577	22.113	1.00	23.01	D	N
	ATOM	5296	CA	GLN	D	119	-0.111	71.772	21.402	1.00	25.97	D	C
	ATOM	5297	CB	GLN	D	119	-0.507	71.625	19.931	1.00	31.29	D	C
	ATOM	5298	CG	GLN	D	119	-0.930	72.913	19.252	1.00	39.62	D	C
5	ATOM	5299	CD	GLN	D	119	-1.177	72.721	17.757	1.00	44.44	D	C
	ATOM	5300	OE1	GLN	D	119	-0.374	73.149	16.919	1.00	43.73	D	O
	ATOM	5301	NE2	GLN	D	119	-2.289	72.068	17.420	1.00	42.08	D	N
	ATOM	5302	C	GLN	D	119	-1.266	72.384	21.527	1.00	23.39	D	C
10	ATOM	5303	O	GLN	D	119	1.414	73.601	21.623	1.00	24.72	D	O
	ATOM	5304	N	ILE	D	120	2.267	71.517	21.545	1.00	20.10	D	N
	ATOM	5305	CA	ILE	D	120	3.645	71.927	21.683	1.00	19.98	D	C
	ATOM	5306	CB	ILE	D	120	4.380	71.030	22.704	1.00	19.22	D	C
	ATOM	5307	CG2	ILE	D	120	5.776	71.572	22.970	1.00	13.68	D	C
	ATOM	5308	CG1	ILE	D	120	3.560	70.929	23.993	1.00	14.39	D	C
15	ATOM	5309	CD1	ILE	D	120	3.174	72.270	24.577	1.00	13.00	D	C
	ATOM	5310	C	ILE	D	120	4.352	71.825	20.346	1.00	22.26	D	C
	ATOM	5311	O	ILE	D	120	4.302	70.787	19.682	1.00	23.25	D	O
	ATOM	5312	N	THR	D	121	5.010	72.910	19.955	1.00	23.62	D	N
20	ATOM	5313	CA	THR	D	121	5.746	72.951	18.703	1.00	24.64	D	C
	ATOM	5314	CB	THR	D	121	5.584	74.315	18.004	1.00	22.22	D	C
	ATOM	5315	OG1	THR	D	121	6.329	75.304	18.715	1.00	21.82	D	O
	ATOM	5316	CG2	THR	D	121	4.122	74.730	17.961	1.00	22.20	D	C
	ATOM	5317	C	THR	D	121	7.220	72.715	18.997	1.00	25.56	D	C
	ATOM	5318	O	THR	D	121	7.676	72.943	20.110	1.00	29.83	D	O
25	ATOM	5319	N	GLY	D	122	7.959	72.245	18.004	1.00	28.32	D	N
	ATOM	5320	CA	GLY	D	122	9.375	71.999	18.193	1.00	30.65	D	C
	ATOM	5321	C	GLY	D	122	9.723	70.539	18.402	1.00	35.69	D	C
	ATOM	5322	O	GLY	D	122	8.847	69.701	18.611	1.00	34.08	D	O
30	ATOM	5323	N	ASP	D	123	11.018	70.241	18.345	1.00	40.99	D	N
	ATOM	5324	CA	ASP	D	123	11.515	68.881	18.528	1.00	45.31	D	C
	ATOM	5325	CB	ASP	D	123	12.871	68.710	17.839	1.00	48.95	D	C
	ATOM	5326	CG	ASP	D	123	12.784	68.874	16.339	1.00	53.70	D	C
	ATOM	5327	OD1	ASP	D	123	11.906	68.227	15.724	1.00	54.96	D	O
	ATOM	5328	OD2	ASP	D	123	13.592	69.650	15.776	1.00	55.96	D	O
35	ATOM	5329	C	ASP	D	123	11.674	68.570	20.004	1.00	45.06	D	C
	ATOM	5330	O	ASP	D	123	12.255	69.360	20.755	1.00	46.02	D	O
	ATOM	5331	N	TYR	D	124	11.164	67.414	20.416	1.00	44.10	D	N
	ATOM	5332	CA	TYR	D	124	11.262	67.010	21.809	1.00	40.82	D	C
	ATOM	5333	CB	TYR	D	124	10.288	65.868	22.093	1.00	37.81	D	C
40	ATOM	5334	CG	TYR	D	124	8.922	66.346	22.527	1.00	36.53	D	C
	ATOM	5335	CD1	TYR	D	124	7.922	66.605	21.590	1.00	34.18	D	C
	ATOM	5336	CE1	TYR	D	124	6.664	67.075	21.986	1.00	34.11	D	C
	ATOM	5337	CD2	TYR	D	124	8.636	66.566	23.876	1.00	32.17	D	C
	ATOM	5338	CE2	TYR	D	124	7.387	67.033	24.278	1.00	31.73	D	C
45	ATOM	5339	CZ	TYR	D	124	6.407	67.287	23.330	1.00	31.73	D	C
	ATOM	5340	OH	TYR	D	124	5.179	67.761	23.724	1.00	29.38	D	O
	ATOM	5341	C	TYR	D	124	12.688	66.582	22.131	1.00	41.04	D	C
	ATOM	5342	O	TYR	D	124	13.235	65.739	21.390	1.00	41.92	D	O
	ATOM	5343	OT	TYR	D	124	13.248	67.108	23.114	1.00	43.41	D	O
50	ATOM	5344	CB	ASP	E	132	20.519	59.150	27.205	1.00	53.53	E	C
	ATOM	5345	CG	ASP	E	132	20.156	59.474	28.646	1.00	57.07	E	C
	ATOM	5346	OD1	ASP	E	132	19.149	60.188	28.862	1.00	57.02	E	O
	ATOM	5347	OD2	ASP	E	132	20.881	59.014	29.562	1.00	58.30	E	O
	ATOM	5348	C	ASP	E	132	18.473	57.761	26.853	1.00	47.10	E	C
55	ATOM	5349	O	ASP	E	132	17.899	57.058	27.682	1.00	47.32	E	O
	ATOM	5350	N	ASP	E	132	20.416	57.503	25.350	1.00	48.89	E	N
	ATOM	5351	CA	ASP	E	132	19.992	57.783	26.756	1.00	49.69	E	C
	ATOM	5352	N	PHE	E	133	17.829	58.549	26.000	1.00	46.73	E	N
	ATOM	5353	CA	PHE	E	133	16.374	58.609	25.959	1.00	44.88	E	C
60	ATOM	5354	CB	PHE	E	133	15.920	59.772	25.069	1.00	42.16	E	C
	ATOM	5355	CG	PHE	E	133	14.431	59.865	24.899	1.00	41.07	E	C
	ATOM	5356	CD1	PHE	E	133	13.873	60.025	23.632	1.00	40.54	E	C
	ATOM	5357	CD2	PHE	E	133	13.581	59.786	26.004	1.00	41.11	E	C
	ATOM	5358	CE1	PHE	E	133	12.488	60.105	23.463	1.00	41.86	E	C
65	ATOM	5359	CE2	PHE	E	133	12.195	59.864	25.854	1.00	40.43	E	C
	ATOM	5360	CZ	PHE	E	133	11.644	60.024	24.580	1.00	42.47	E	C
	ATOM	5361	C	PHE	E	133	15.899	57.285	25.369	1.00	45.13	E	C
	ATOM	5362	O	PHE	E	133	14.790	56.823	25.645	1.00	44.81	E	O

	ATOM	5363	N	GLU	E	134	16.762	56.682	24.558	1.00	42.31	E	N
	ATOM	5364	CA	GLU	E	134	16.463	55.416	23.916	1.00	41.29	E	C
	ATOM	5365	CB	GLU	E	134	17.625	55.007	23.008	1.00	45.93	E	C
	ATOM	5366	CG	GLU	E	134	17.212	54.676	21.579	1.00	53.20	E	C
5	ATOM	5367	CD	GLU	E	134	17.624	53.274	21.162	1.00	56.59	E	C
	ATOM	5368	OE1	GLU	E	134	18.795	52.904	21.401	1.00	59.31	E	O
	ATOM	5369	OE2	GLU	E	134	16.778	52.545	20.597	1.00	57.19	E	O
	ATOM	5370	C	GLU	E	134	16.230	54.340	24.965	1.00	39.42	E	C
	ATOM	5371	O	GLU	E	134	15.275	53.561	24.879	1.00	36.85	E	O
10	ATOM	5372	N	ILE	E	135	17.110	54.298	25.958	1.00	36.66	E	N
	ATOM	5373	CA	ILE	E	135	16.996	53.301	27.008	1.00	35.46	E	C
	ATOM	5374	CB	ILE	E	135	18.273	53.259	27.889	1.00	37.66	E	C
	ATOM	5375	CG2	ILE	E	135	19.514	53.500	27.027	1.00	36.42	E	C
	ATOM	5376	CG1	ILE	E	135	18.179	54.296	29.008	1.00	41.31	E	C
15	ATOM	5377	CD1	ILE	E	135	17.920	53.687	30.379	1.00	44.66	E	C
	ATOM	5378	C	ILE	E	135	15.777	53.562	27.877	1.00	32.02	E	C
	ATOM	5379	O	ILE	E	135	15.195	52.632	28.438	1.00	32.24	E	O
	ATOM	5380	N	VAL	E	136	15.389	54.826	27.991	1.00	28.45	E	N
	ATOM	5381	CA	VAL	E	136	14.224	55.167	28.792	1.00	26.24	E	C
20	ATOM	5382	CB	VAL	E	136	14.083	56.699	28.978	1.00	25.78	E	C
	ATOM	5383	CG1	VAL	E	136	12.743	57.027	29.602	1.00	23.91	E	C
	ATOM	5384	CG2	VAL	E	136	15.204	57.226	29.849	1.00	21.09	E	C
	ATOM	5385	C	VAL	E	136	12.999	54.637	28.061	1.00	25.58	E	C
	ATOM	5386	O	VAL	E	136	12.143	53.981	28.649	1.00	24.96	E	O
25	ATOM	5387	N	CYS	E	137	12.929	54.919	26.765	1.00	26.30	E	N
	ATOM	5388	CA	CYS	E	137	11.807	54.473	25.947	1.00	24.10	E	C
	ATOM	5389	CB	CYS	E	137	11.928	55.053	24.538	1.00	23.46	E	C
	ATOM	5390	SG	CYS	E	137	11.383	56.787	24.404	1.00	24.83	E	S
	ATOM	5391	C	CYS	E	137	11.746	52.955	25.896	1.00	21.87	E	C
30	ATOM	5392	O	CYS	E	137	10.666	52.371	25.888	1.00	23.29	E	O
	ATOM	5393	N	LYS	E	138	12.908	52.316	25.869	1.00	21.81	E	N
	ATOM	5394	CA	LYS	E	138	12.970	50.861	25.830	1.00	24.11	E	C
	ATOM	5395	CB	LYS	E	138	14.413	50.391	25.652	1.00	28.52	E	C
	ATOM	5396	CG	LYS	E	138	14.846	50.221	24.210	1.00	36.45	E	C
35	ATOM	5397	CD	LYS	E	138	16.333	49.897	24.136	1.00	42.80	E	C
	ATOM	5398	CE	LYS	E	138	16.858	49.989	22.713	1.00	45.35	E	C
	ATOM	5399	NZ	LYS	E	138	17.507	48.708	22.301	1.00	49.51	E	N
	ATOM	5400	C	LYS	E	138	12.416	50.280	27.127	1.00	23.75	E	C
	ATOM	5401	O	LYS	E	138	11.677	49.291	27.107	1.00	25.68	E	O
40	ATOM	5402	N	GLY	E	139	12.786	50.894	28.251	1.00	21.86	E	N
	ATOM	5403	CA	GLY	E	139	12.322	50.438	29.553	1.00	18.28	E	C
	ATOM	5404	C	GLY	E	139	10.814	50.552	29.708	1.00	18.61	E	C
	ATOM	5405	O	GLY	E	139	10.154	49.623	30.173	1.00	18.96	E	O
	ATOM	5406	N	LEU	E	140	10.260	51.693	29.315	1.00	17.96	E	N
45	ATOM	5407	CA	LEU	E	140	8.823	51.911	29.416	1.00	18.26	E	C
	ATOM	5408	CB	LEU	E	140	8.487	53.353	29.030	1.00	18.94	E	C
	ATOM	5409	CG	LEU	E	140	8.984	54.398	30.036	1.00	17.37	E	C
	ATOM	5410	CD1	LEU	E	140	8.759	55.807	29.506	1.00	17.09	E	C
	ATOM	5411	CD2	LEU	E	140	8.255	54.208	31.344	1.00	12.92	E	C
50	ATOM	5412	C	LEU	E	140	8.063	50.937	28.524	1.00	19.68	E	C
	ATOM	5413	O	LEU	E	140	6.980	50.468	28.884	1.00	20.91	E	O
	ATOM	5414	N	TYR	E	141	8.635	50.624	27.365	1.00	18.89	E	N
	ATOM	5415	CA	TYR	E	141	7.998	49.697	26.442	1.00	16.02	E	C
	ATOM	5416	CB	TYR	E	141	8.756	49.668	25.108	1.00	17.39	E	C
55	ATOM	5417	CG	TYR	E	141	8.536	48.405	24.305	1.00	14.32	E	C
	ATOM	5418	CD1	TYR	E	141	9.470	47.373	24.330	1.00	14.83	E	C
	ATOM	5419	CE1	TYR	E	141	9.246	46.183	23.642	1.00	20.81	E	C
	ATOM	5420	CD2	TYR	E	141	7.371	48.223	23.562	1.00	14.55	E	C
	ATOM	5421	CE2	TYR	E	141	7.135	47.039	22.870	1.00	18.31	E	C
60	ATOM	5422	CZ	TYR	E	141	8.074	46.022	22.916	1.00	21.92	E	C
	ATOM	5423	OH	TYR	E	141	7.834	44.832	22.259	1.00	27.23	E	O
	ATOM	5424	C	TYR	E	141	7.976	48.303	27.060	1.00	16.40	E	C
	ATOM	5425	O	TYR	E	141	6.926	47.657	27.138	1.00	14.76	E	O
	ATOM	5426	N	ARG	E	142	9.137	47.839	27.510	1.00	16.16	E	N
65	ATOM	5427	CA	ARG	E	142	9.223	46.516	28.102	1.00	17.11	E	C
	ATOM	5428	CB	ARG	E	142	10.671	46.203	28.478	1.00	16.83	E	C
	ATOM	5429	CG	ARG	E	142	10.799	45.103	29.514	1.00	24.49	E	C
	ATOM	5430	CD	ARG	E	142	11.994	44.180	29.296	1.00	24.80	E	C

	ATOM	5431	NE	ARG	E	142	11.824	42.955	30.081	1.00	30.66	E	N
	ATOM	5432	CZ	ARG	E	142	12.798	42.332	30.737	1.00	31.73	E	C
	ATOM	5433	NH1	ARG	E	142	14.036	42.822	30.708	1.00	29.35	E	N
	ATOM	5434	NH2	ARG	E	142	12.528	41.232	31.440	1.00	27.60	E	N
5	ATOM	5435	C	ARG	E	142	8.311	46.401	29.328	1.00	18.52	E	C
	ATOM	5436	O	ARG	E	142	7.720	45.347	29.576	1.00	20.49	E	O
	ATOM	5437	N	ALA	E	143	8.186	47.486	30.087	1.00	17.31	E	N
	ATOM	5438	CA	ALA	E	143	7.339	47.484	31.281	1.00	16.40	E	C
10	ATOM	5439	CB	ALA	E	143	7.507	48.787	32.052	1.00	16.88	E	C
	ATOM	5440	C	ALA	E	143	5.880	47.286	30.918	1.00	15.39	E	C
	ATOM	5441	O	ALA	E	143	5.156	46.584	31.617	1.00	16.44	E	O
	ATOM	5442	N	LEU	E	144	5.449	47.909	29.827	1.00	14.91	E	N
	ATOM	5443	CA	LEU	E	144	4.065	47.782	29.377	1.00	16.74	E	C
	ATOM	5444	CB	LEU	E	144	3.752	48.839	28.319	1.00	15.48	E	C
15	ATOM	5445	CG	LEU	E	144	3.490	50.241	28.869	1.00	15.14	E	C
	ATOM	5446	CD1	LEU	E	144	3.398	51.248	27.744	1.00	10.74	E	C
	ATOM	5447	CD2	LEU	E	144	2.208	50.212	29.671	1.00	13.20	E	C
	ATOM	5448	C	LEU	E	144	3.829	46.394	28.801	1.00	16.96	E	C
	ATOM	5449	O	LEU	E	144	2.716	45.868	28.841	1.00	17.59	E	O
20	ATOM	5450	N	CYS	E	145	4.888	45.804	28.264	1.00	19.25	E	N
	ATOM	5451	CA	CYS	E	145	4.815	44.472	27.683	1.00	18.12	E	C
	ATOM	5452	CB	CYS	E	145	6.108	44.149	26.949	1.00	22.70	E	C
	ATOM	5453	SG	CYS	E	145	5.972	44.312	25.186	1.00	35.92	E	S
	ATOM	5454	C	CYS	E	145	4.615	43.447	28.774	1.00	16.33	E	C
25	ATOM	5455	O	CYS	E	145	3.902	42.459	28.590	1.00	17.97	E	O
	ATOM	5456	N	ILE	E	146	5.267	43.682	29.907	1.00	15.11	E	N
	ATOM	5457	CA	ILE	E	146	5.182	42.785	31.048	1.00	12.24	E	C
	ATOM	5458	CB	ILE	E	146	6.202	43.182	32.139	1.00	11.99	E	C
	ATOM	5459	CG2	ILE	E	146	5.870	42.487	33.450	1.00	13.24	E	C
30	ATOM	5460	CG1	ILE	E	146	7.612	42.796	31.692	1.00	9.07	E	C
	ATOM	5461	CD1	ILE	E	146	8.705	43.568	32.384	1.00	9.16	E	C
	ATOM	5462	C	ILE	E	146	3.778	42.780	31.643	1.00	12.98	E	C
	ATOM	5463	O	ILE	E	146	3.232	41.715	31.938	1.00	14.51	E	O
	ATOM	5464	N	ARG	E	147	3.178	43.955	31.809	1.00	12.07	E	N
35	ATOM	5465	CA	ARG	E	147	1.836	43.999	32.380	1.00	11.87	E	C
	ATOM	5466	CB	ARG	E	147	1.392	45.431	32.662	1.00	9.61	E	C
	ATOM	5467	CG	ARG	E	147	-0.084	45.500	33.036	1.00	7.57	E	C
	ATOM	5468	CD	ARG	E	147	-0.468	46.808	33.681	1.00	7.05	E	C
	ATOM	5469	NE	ARG	E	147	-1.883	46.835	34.047	1.00	7.28	E	N
40	ATOM	5470	CZ	ARG	E	147	-2.386	46.260	35.138	1.00	8.84	E	C
	ATOM	5471	NH1	ARG	E	147	-1.591	45.604	35.975	1.00	6.36	E	N
	ATOM	5472	NH2	ARG	E	147	-3.682	46.360	35.403	1.00	5.11	E	N
	ATOM	5473	C	ARG	E	147	0.826	43.344	31.452	1.00	15.63	E	C
	ATOM	5474	O	ARG	E	147	-0.106	42.667	31.903	1.00	16.00	E	O
45	ATOM	5475	N	GLU	E	148	0.999	43.557	30.150	1.00	17.37	E	N
	ATOM	5476	CA	GLU	E	148	0.096	42.962	29.168	1.00	17.49	E	C
	ATOM	5477	CB	GLU	E	148	0.422	43.482	27.771	1.00	19.01	E	C
	ATOM	5478	CG	GLU	E	148	-0.413	42.848	26.668	1.00	21.75	E	C
	ATOM	5479	CD	GLU	E	148	0.162	43.114	25.298	1.00	23.52	E	C
50	ATOM	5480	OE1	GLU	E	148	-0.542	43.717	24.459	1.00	25.37	E	O
	ATOM	5481	OE2	GLU	E	148	1.323	42.722	25.064	1.00	24.86	E	O
	ATOM	5482	C	GLU	E	148	0.216	41.439	29.180	1.00	16.64	E	C
	ATOM	5483	O	GLU	E	148	-0.791	40.722	29.126	1.00	16.41	E	O
	ATOM	5484	N	LYS	E	149	1.451	40.946	29.255	1.00	15.22	E	N
55	ATOM	5485	CA	LYS	E	149	1.686	39.508	29.268	1.00	15.21	E	C
	ATOM	5486	CB	LYS	E	149	3.185	39.221	29.334	1.00	12.64	E	C
	ATOM	5487	CG	LYS	E	149	3.532	37.742	29.388	1.00	12.61	E	C
	ATOM	5488	CD	LYS	E	149	5.035	37.521	29.342	1.00	13.17	E	C
	ATOM	5489	CE	LYS	E	149	5.717	38.042	30.598	1.00	15.32	E	C
60	ATOM	5490	NZ	LYS	E	149	7.195	37.786	30.580	1.00	16.82	E	N
	ATOM	5491	C	LYS	E	149	0.976	38.819	30.430	1.00	18.80	E	C
	ATOM	5492	O	LYS	E	149	0.256	37.836	30.228	1.00	19.30	E	O
	ATOM	5493	N	TYR	E	150	1.165	39.345	31.641	1.00	17.83	E	N
	ATOM	5494	CA	TYR	E	150	0.555	38.766	32.829	1.00	14.47	E	C
65	ATOM	5495	CB	TYR	E	150	1.260	39.308	34.077	1.00	19.32	E	C
	ATOM	5496	CG	TYR	E	150	2.683	38.795	34.213	1.00	18.38	E	C
	ATOM	5497	CD1	TYR	E	150	2.930	37.466	34.559	1.00	18.84	E	C
	ATOM	5498	CE1	TYR	E	150	4.232	36.954	34.603	1.00	18.37	E	C

	ATOM	5499	CD2	TYR	E	150	3.779	39.611	33.921	1.00	17.49	E	C
	ATOM	5500	CE2	TYR	E	150	5.090	39.105	33.964	1.00	18.66	E	C
	ATOM	5501	CZ	TYR	E	150	5.301	37.775	34.304	1.00	17.35	E	C
5	ATOM	5502	OH	TYR	E	150	6.571	37.250	34.329	1.00	20.05	E	O
	ATOM	5503	C	TYR	E	150	-0.949	38.996	32.909	1.00	14.99	E	C
	ATOM	5504	O	TYR	E	150	-1.665	38.211	33.532	1.00	15.90	E	O
	ATOM	5505	N	MET	E	151	-1.441	40.058	32.279	1.00	14.51	E	N
	ATOM	5506	CA	MET	E	151	-2.879	40.327	32.300	1.00	15.67	E	C
10	ATOM	5507	CB	MET	E	151	-3.171	41.757	31.843	1.00	13.46	E	C
	ATOM	5508	CG	MET	E	151	-2.828	42.835	32.859	1.00	14.86	E	C
	ATOM	5509	SD	MET	E	151	-3.692	42.671	34.446	1.00	13.02	E	S
	ATOM	5510	CE	MET	E	151	-2.374	41.998	35.441	1.00	7.32	E	C
	ATOM	5511	C	MET	E	151	-3.659	39.350	31.411	1.00	17.29	E	C
15	ATOM	5512	O	MET	E	151	-4.670	38.795	31.832	1.00	21.28	E	O
	ATOM	5513	N	LEU	E	152	-3.196	39.138	30.183	1.00	18.99	E	N
	ATOM	5514	CA	LEU	E	152	-3.884	38.231	29.261	1.00	19.60	E	C
	ATOM	5515	CB	LEU	E	152	-3.338	38.389	27.843	1.00	20.29	E	C
	ATOM	5516	CG	LEU	E	152	-3.325	39.802	27.249	1.00	26.20	E	C
20	ATOM	5517	CD1	LEU	E	152	-2.912	39.711	25.789	1.00	25.81	E	C
	ATOM	5518	CD2	LEU	E	152	-4.708	40.464	27.385	1.00	26.84	E	C
	ATOM	5519	C	LEU	E	152	-3.730	36.783	29.687	1.00	17.83	E	C
	ATOM	5520	O	LEU	E	152	-4.643	35.971	29.539	1.00	18.53	E	O
	ATOM	5521	N	LYS	E	153	-2.556	36.468	30.213	1.00	17.65	E	N
25	ATOM	5522	CA	LYS	E	153	-2.246	35.126	30.668	1.00	19.42	E	C
	ATOM	5523	CB	LYS	E	153	-0.775	35.076	31.070	1.00	21.51	E	C
	ATOM	5524	CG	LYS	E	153	-0.358	33.878	31.877	1.00	25.20	E	C
	ATOM	5525	CD	LYS	E	153	1.043	34.091	32.431	1.00	27.01	E	C
	ATOM	5526	CE	LYS	E	153	2.030	34.323	31.308	1.00	30.19	E	C
30	ATOM	5527	NZ	LYS	E	153	3.430	34.357	31.814	1.00	36.43	E	N
	ATOM	5528	C	LYS	E	153	-3.144	34.686	31.830	1.00	20.59	E	C
	ATOM	5529	O	LYS	E	153	-3.319	33.489	32.061	1.00	19.40	E	O
	ATOM	5530	N	SER	E	154	-3.721	35.650	32.550	1.00	19.81	E	N
	ATOM	5531	CA	SER	E	154	-4.591	35.339	33.681	1.00	19.27	E	C
35	ATOM	5532	CB	SER	E	154	-4.079	36.016	34.951	1.00	18.46	E	C
	ATOM	5533	OG	SER	E	154	-4.147	37.427	34.833	1.00	21.11	E	O
	ATOM	5534	C	SER	E	154	-6.037	35.752	33.439	1.00	22.40	E	C
	ATOM	5535	O	SER	E	154	-6.866	35.707	34.358	1.00	21.57	E	O
	ATOM	5536	N	PHE	E	155	-6.332	36.158	32.206	1.00	18.51	E	N
40	ATOM	5537	CA	PHE	E	155	-7.680	36.565	31.826	1.00	17.10	E	C
	ATOM	5538	CB	PHE	E	155	-8.660	35.419	32.071	1.00	20.88	E	C
	ATOM	5539	CG	PHE	E	155	-8.371	34.208	31.244	1.00	25.46	E	C
	ATOM	5540	CD1	PHE	E	155	-8.925	34.068	29.978	1.00	26.29	E	C
	ATOM	5541	CD2	PHE	E	155	-7.487	33.233	31.703	1.00	27.05	E	C
45	ATOM	5542	CE1	PHE	E	155	-8.595	32.974	29.176	1.00	29.46	E	C
	ATOM	5543	CE2	PHE	E	155	-7.150	32.133	30.906	1.00	26.11	E	C
	ATOM	5544	CZ	PHE	E	155	-7.703	32.007	29.645	1.00	27.46	E	C
	ATOM	5545	C	PHE	E	155	-8.160	37.820	32.529	1.00	16.58	E	C
	ATOM	5546	O	PHE	E	155	-9.335	37.944	32.882	1.00	17.12	E	O
50	ATOM	5547	N	GLN	E	156	-7.245	38.758	32.730	1.00	14.45	E	N
	ATOM	5548	CA	GLN	E	156	-7.599	40.014	33.359	1.00	14.25	E	C
	ATOM	5549	CB	GLN	E	156	-6.652	40.304	34.522	1.00	12.97	E	C
	ATOM	5550	CG	GLN	E	156	-6.862	39.348	35.691	1.00	10.23	E	C
	ATOM	5551	CD	GLN	E	156	-6.205	39.817	36.965	1.00	11.97	E	C
55	ATOM	5552	OE1	GLN	E	156	-5.023	39.551	37.205	1.00	13.97	E	O
	ATOM	5553	NE2	GLN	E	156	-6.963	40.516	37.794	1.00	8.24	E	N
	ATOM	5554	C	GLN	E	156	-7.522	41.071	32.267	1.00	15.59	E	C
	ATOM	5555	O	GLN	E	156	-6.980	40.807	31.192	1.00	16.60	E	O
	ATOM	5556	N	ARG	E	157	-8.062	42.258	32.531	1.00	16.21	E	N
60	ATOM	5557	CA	ARG	E	157	-8.104	43.317	31.527	1.00	14.91	E	C
	ATOM	5558	CB	ARG	E	157	-9.294	44.236	31.820	1.00	12.81	E	C
	ATOM	5559	CG	ARG	E	157	-10.579	43.477	32.124	1.00	12.92	E	C
	ATOM	5560	CD	ARG	E	157	-11.681	44.401	32.631	1.00	12.91	E	C
	ATOM	5561	NE	ARG	E	157	-11.419	44.849	33.996	1.00	15.58	E	N
65	ATOM	5562	CZ	ARG	E	157	-12.221	45.645	34.696	1.00	12.97	E	C
	ATOM	5563	NH1	ARG	E	157	-11.892	45.995	35.929	1.00	15.11	E	N
	ATOM	5564	NH2	ARG	E	157	-13.351	46.087	34.171	1.00	12.70	E	N
	ATOM	5565	C	ARG	E	157	-6.867	44.175	31.286	1.00	14.85	E	C
	ATOM	5566	O	ARG	E	157	-6.123	44.502	32.207	1.00	16.83	E	O

	ATOM	5567	N	PHE	E	158	-6.672	44.523	30.013	1.00	15.97	E	N
	ATOM	5568	CA	PHE	E	158	-5.595	45.395	29.545	1.00	13.15	E	C
	ATOM	5569	CB	PHE	E	158	-4.376	44.599	29.099	1.00	9.14	E	C
	ATOM	5570	CG	PHE	E	158	-3.151	45.448	28.923	1.00	11.98	E	C
5	ATOM	5571	CD1	PHE	E	158	-2.704	45.798	27.653	1.00	9.48	E	C
	ATOM	5572	CD2	PHE	E	158	-2.477	45.946	30.027	1.00	6.78	E	C
	ATOM	5573	CE1	PHE	E	158	-1.608	46.635	27.486	1.00	6.97	E	C
	ATOM	5574	CE2	PHE	E	158	-1.385	46.779	29.870	1.00	8.87	E	C
10	ATOM	5575	CZ	PHE	E	158	-0.949	47.126	28.590	1.00	10.45	E	C
	ATOM	5576	C	PHE	E	158	-6.172	46.160	28.352	1.00	15.11	E	C
	ATOM	5577	O	PHE	E	158	-6.620	45.544	27.390	1.00	15.55	E	O
	ATOM	5578	N	PRO	E	159	-6.169	47.511	28.402	1.00	15.75	E	N
	ATOM	5579	CD	PRO	E	159	-5.602	48.317	29.495	1.00	14.60	E	C
	ATOM	5580	CA	PRO	E	159	-6.703	48.370	27.333	1.00	15.13	E	C
15	ATOM	5581	CB	PRO	E	159	-6.397	49.789	27.819	1.00	14.72	E	C
	ATOM	5582	CG	PRO	E	159	-5.311	49.619	28.823	1.00	14.01	E	C
	ATOM	5583	C	PRO	E	159	-6.142	48.113	25.935	1.00	16.44	E	C
	ATOM	5584	O	PRO	E	159	-4.975	47.759	25.773	1.00	15.86	E	O
	ATOM	5585	N	LYS	E	160	-6.988	48.319	24.929	1.00	18.53	E	N
20	ATOM	5586	CA	LYS	E	160	-6.617	48.102	23.537	1.00	18.36	E	C
	ATOM	5587	CB	LYS	E	160	-7.865	48.128	22.648	1.00	19.44	E	C
	ATOM	5588	CG	LYS	E	160	-8.713	46.873	22.743	1.00	24.74	E	C
	ATOM	5589	CD	LYS	E	160	-10.078	47.045	22.074	1.00	32.35	E	C
	ATOM	5590	CE	LYS	E	160	-10.841	48.270	22.602	1.00	34.95	E	C
25	ATOM	5591	NZ	LYS	E	160	-11.171	48.181	24.057	1.00	36.21	E	N
	ATOM	5592	C	LYS	E	160	-5.594	49.078	22.979	1.00	16.84	E	C
	ATOM	5593	O	LYS	E	160	-4.611	48.661	22.374	1.00	17.58	E	O
	ATOM	5594	N	THR	E	161	-5.803	50.374	23.188	1.00	17.08	E	N
	ATOM	5595	CA	THR	E	161	-4.882	51.349	22.624	1.00	19.02	E	C
30	ATOM	5596	CB	THR	E	161	-5.361	52.806	22.880	1.00	18.38	E	C
	ATOM	5597	OG1	THR	E	161	-4.683	53.361	24.004	1.00	25.32	E	O
	ATOM	5598	CG2	THR	E	161	-6.856	52.838	23.110	1.00	16.72	E	C
	ATOM	5599	C	THR	E	161	-3.410	51.171	22.998	1.00	19.23	E	C
	ATOM	5600	O	THR	E	161	-2.545	51.276	22.129	1.00	22.85	E	O
35	ATOM	5601	N	PRO	E	162	-3.092	50.911	24.279	1.00	19.99	E	N
	ATOM	5602	CD	PRO	E	162	-3.936	50.818	25.479	1.00	20.56	E	C
	ATOM	5603	CA	PRO	E	162	-1.670	50.731	24.607	1.00	18.78	E	C
	ATOM	5604	CB	PRO	E	162	-1.663	50.526	26.120	1.00	15.28	E	C
	ATOM	5605	CG	PRO	E	162	-2.954	51.051	26.586	1.00	16.06	E	C
40	ATOM	5606	C	PRO	E	162	-1.081	49.523	23.871	1.00	17.58	E	C
	ATOM	5607	O	PRO	E	162	0.113	49.473	23.595	1.00	17.08	E	O
	ATOM	5608	N	SER	E	163	-1.931	48.549	23.563	1.00	17.40	E	N
	ATOM	5609	CA	SER	E	163	-1.507	47.346	22.851	1.00	19.00	E	C
	ATOM	5610	CB	SER	E	163	-2.593	46.277	22.938	1.00	19.74	E	C
45	ATOM	5611	OG	SER	E	163	-2.540	45.612	24.188	1.00	21.97	E	O
	ATOM	5612	C	SER	E	163	-1.219	47.664	21.382	1.00	20.40	E	C
	ATOM	5613	O	SER	E	163	-0.218	47.220	20.822	1.00	21.01	E	O
	ATOM	5614	N	LYS	E	164	-2.103	48.435	20.761	1.00	20.57	E	N
	ATOM	5615	CA	LYS	E	164	-1.913	48.819	19.375	1.00	20.33	E	C
50	ATOM	5616	CB	LYS	E	164	-2.991	49.813	18.951	1.00	17.02	E	C
	ATOM	5617	CG	LYS	E	164	-4.344	49.175	18.709	1.00	17.96	E	C
	ATOM	5618	CD	LYS	E	164	-5.399	50.234	18.455	1.00	23.19	E	C
	ATOM	5619	CE	LYS	E	164	-6.776	49.614	18.287	1.00	28.34	E	C
	ATOM	5620	NZ	LYS	E	164	-7.842	50.662	18.280	1.00	34.33	E	N
55	ATOM	5621	C	LYS	E	164	-0.530	49.441	19.181	1.00	21.98	E	C
	ATOM	5622	O	LYS	E	164	0.153	49.148	18.194	1.00	23.52	E	O
	ATOM	5623	N	TYR	E	165	-0.114	50.291	20.118	1.00	19.93	E	N
	ATOM	5624	CA	TYR	E	165	1.193	50.936	20.018	1.00	21.76	E	C
	ATOM	5625	CB	TYR	E	165	1.332	52.045	21.060	1.00	19.75	E	C
60	ATOM	5626	CG	TYR	E	165	0.832	53.378	20.580	1.00	18.11	E	C
	ATOM	5627	CD1	TYR	E	165	1.656	54.229	19.849	1.00	14.99	E	C
	ATOM	5628	CE1	TYR	E	165	1.181	55.440	19.356	1.00	15.68	E	C
	ATOM	5629	CD2	TYR	E	165	-0.485	53.772	20.816	1.00	19.18	E	C
	ATOM	5630	CE2	TYR	E	165	-0.973	54.985	20.327	1.00	18.20	E	C
65	ATOM	5631	CZ	TYR	E	165	-0.132	55.810	19.595	1.00	17.87	E	C
	ATOM	5632	OH	TYR	E	165	-0.610	56.992	19.079	1.00	25.12	E	O
	ATOM	5633	C	TYR	E	165	2.310	49.924	20.214	1.00	24.90	E	C
	ATOM	5634	O	TYR	E	165	3.372	50.028	19.594	1.00	26.86	E	O

	ATOM	5635	N	LEU	E	166	2.070	48.945	21.083	1.00	24.76	E	N
	ATOM	5636	CA	LEU	E	166	3.061	47.917	21.353	1.00	22.57	E	C
	ATOM	5637	CB	LEU	E	166	2.584	47.014	22.496	1.00	22.79	E	C
	ATOM	5638	CG	LEU	E	166	2.635	47.581	23.926	1.00	22.22	E	C
5	ATOM	5639	CD1	LEU	E	166	2.152	46.526	24.907	1.00	19.69	E	C
	ATOM	5640	CD2	LEU	E	166	4.051	48.014	24.278	1.00	16.63	E	C
	ATOM	5641	C	LEU	E	166	3.295	47.091	20.093	1.00	22.66	E	C
	ATOM	5642	O	LEU	E	166	4.435	46.865	19.696	1.00	22.60	E	O
	ATOM	5643	N	ARG	E	167	2.210	46.647	19.465	1.00	24.02	E	N
10	ATOM	5644	CA	ARG	E	167	2.312	45.848	18.245	1.00	24.12	E	C
	ATOM	5645	CB	ARG	E	167	0.915	45.457	17.746	1.00	21.22	E	C
	ATOM	5646	CG	ARG	E	167	0.194	44.421	18.618	1.00	21.66	E	C
	ATOM	5647	CD	ARG	E	167	1.052	43.182	18.908	1.00	20.15	E	C
	ATOM	5648	NE	ARG	E	167	1.929	43.358	20.072	1.00	22.59	E	N
15	ATOM	5649	CZ	ARG	E	167	1.518	43.385	21.344	1.00	19.45	E	C
	ATOM	5650	NH1	ARG	E	167	0.234	43.245	21.641	1.00	17.09	E	N
	ATOM	5651	NH2	ARG	E	167	2.393	43.560	22.328	1.00	14.79	E	N
	ATOM	5652	C	ARG	E	167	3.066	46.640	17.171	1.00	25.76	E	C
	ATOM	5653	O	ARG	E	167	3.958	46.103	16.506	1.00	23.66	E	O
20	ATOM	5654	N	SER	E	168	2.717	47.919	17.021	1.00	25.53	E	N
	ATOM	5655	CA	SER	E	168	3.368	48.795	16.045	1.00	26.06	E	C
	ATOM	5656	CB	SER	E	168	2.873	50.230	16.184	1.00	26.46	E	C
	ATOM	5657	OG	SER	E	168	1.463	50.295	16.101	1.00	35.95	E	O
	ATOM	5658	C	SER	E	168	4.860	48.805	16.270	1.00	27.09	E	C
25	ATOM	5659	O	SER	E	168	5.641	48.542	15.357	1.00	30.14	E	O
	ATOM	5660	N	ILE	E	169	5.247	49.134	17.496	1.00	26.94	E	N
	ATOM	5661	CA	ILE	E	169	6.647	49.198	17.873	1.00	26.41	E	C
	ATOM	5662	CB	ILE	E	169	6.792	49.465	19.392	1.00	25.84	E	C
	ATOM	5663	CG2	ILE	E	169	8.223	49.203	19.840	1.00	25.80	E	C
30	ATOM	5664	CG1	ILE	E	169	6.383	50.915	19.696	1.00	25.16	E	C
	ATOM	5665	CD1	ILE	E	169	6.668	51.372	21.104	1.00	20.49	E	C
	ATOM	5666	C	ILE	E	169	7.355	47.904	17.507	1.00	29.30	E	C
	ATOM	5667	O	ILE	E	169	8.515	47.919	17.099	1.00	27.67	E	O
	ATOM	5668	N	GLU	E	170	6.646	46.788	17.639	1.00	31.28	E	N
35	ATOM	5669	CA	GLU	E	170	7.213	45.482	17.333	1.00	33.37	E	C
	ATOM	5670	CB	GLU	E	170	6.380	44.383	17.986	1.00	33.92	E	C
	ATOM	5671	CG	GLU	E	170	6.628	44.221	19.465	1.00	36.96	E	C
	ATOM	5672	CD	GLU	E	170	5.434	43.626	20.187	1.00	40.21	E	C
	ATOM	5673	OE1	GLU	E	170	5.292	43.879	21.406	1.00	40.38	E	O
40	ATOM	5674	OE2	GLU	E	170	4.641	42.908	19.533	1.00	38.31	E	O
	ATOM	5675	C	GLU	E	170	7.296	45.216	15.837	1.00	36.57	E	C
	ATOM	5676	O	GLU	E	170	8.087	44.383	15.392	1.00	37.34	E	O
	ATOM	5677	N	GLY	E	171	6.476	45.916	15.061	1.00	37.10	E	N
	ATOM	5678	CA	GLY	E	171	6.486	45.708	13.628	1.00	40.93	E	C
45	ATOM	5679	C	GLY	E	171	5.439	44.702	13.182	1.00	42.27	E	C
	ATOM	5680	O	GLY	E	171	5.546	44.123	12.100	1.00	43.24	E	O
	ATOM	5681	N	THR	E	172	4.428	44.485	14.016	1.00	43.83	E	N
	ATOM	5682	CA	THR	E	172	3.361	43.555	13.678	1.00	45.47	E	C
	ATOM	5683	CB	THR	E	172	3.230	42.423	14.731	1.00	44.82	E	C
50	ATOM	5684	OG1	THR	E	172	2.014	42.590	15.470	1.00	44.95	E	O
	ATOM	5685	CG2	THR	E	172	4.415	42.433	15.688	1.00	43.06	E	C
	ATOM	5686	C	THR	E	172	2.033	44.303	13.565	1.00	46.51	E	C
	ATOM	5687	O	THR	E	172	1.877	45.402	14.098	1.00	45.11	E	O
	ATOM	5688	N	ALA	E	173	1.086	43.710	12.846	1.00	50.37	E	N
55	ATOM	5689	CA	ALA	E	173	-0.229	44.314	12.662	1.00	52.27	E	C
	ATOM	5690	CB	ALA	E	173	-0.872	43.790	11.385	1.00	51.81	E	C
	ATOM	5691	C	ALA	E	173	-1.091	43.970	13.870	1.00	52.96	E	C
	ATOM	5692	O	ALA	E	173	-0.937	42.902	14.465	1.00	55.17	E	O
	ATOM	5693	N	TRP	E	174	-1.999	44.869	14.233	1.00	51.76	E	N
60	ATOM	5694	CA	TRP	E	174	-2.848	44.640	15.393	1.00	50.76	E	C
	ATOM	5695	CB	TRP	E	174	-3.358	45.973	15.947	1.00	49.51	E	C
	ATOM	5696	CG	TRP	E	174	-4.149	45.809	17.209	1.00	47.20	E	C
	ATOM	5697	CD2	TRP	E	174	-5.557	46.002	17.363	1.00	46.84	E	C
	ATOM	5698	CE2	TRP	E	174	-5.878	45.690	18.702	1.00	45.65	E	C
65	ATOM	5699	CE3	TRP	E	174	-6.580	46.409	16.495	1.00	49.31	E	C
	ATOM	5700	CD1	TRP	E	174	-3.683	45.400	18.429	1.00	44.78	E	C
	ATOM	5701	NE1	TRP	E	174	-4.717	45.324	19.331	1.00	42.46	E	N
	ATOM	5702	CZ2	TRP	E	174	-7.183	45.772	19.196	1.00	48.00	E	C

	ATOM	5703	CZ3	TRP	E	174	-7.880	46.494	16.987	1.00	51.30	E	C
	ATOM	5704	CH2	TRP	E	174	-8.169	46.172	18.327	1.00	50.50	E	C
	ATOM	5705	C	TRP	E	174	-4.025	43.704	15.149	1.00	51.55	E	C
5	ATOM	5706	O	TRP	E	174	-4.807	43.890	14.218	1.00	52.84	E	O
	ATOM	5707	N	LYS	E	175	-4.144	42.705	16.017	1.00	52.66	E	N
	ATOM	5708	CA	LYS	E	175	-5.212	41.714	15.944	1.00	54.45	E	C
	ATOM	5709	CB	LYS	E	175	-4.754	40.415	16.609	1.00	56.71	E	C
	ATOM	5710	CG	LYS	E	175	-3.778	40.619	17.775	1.00	58.19	E	C
10	ATOM	5711	CD	LYS	E	175	-3.090	39.309	18.172	1.00	59.54	E	C
	ATOM	5712	CE	LYS	E	175	-2.486	38.588	16.961	1.00	60.94	E	C
	ATOM	5713	NZ	LYS	E	175	-3.393	37.526	16.404	1.00	60.71	E	N
	ATOM	5714	C	LYS	E	175	-6.492	42.204	16.624	1.00	54.96	E	C
	ATOM	5715	O	LYS	E	175	-7.023	43.261	16.282	1.00	55.79	E	O
15	ATOM	5716	N	ALA	E	176	-6.977	41.418	17.585	1.00	54.87	E	N
	ATOM	5717	CA	ALA	E	176	-8.190	41.731	18.339	1.00	54.90	E	C
	ATOM	5718	CB	ALA	E	176	-9.328	42.104	17.388	1.00	50.91	E	C
	ATOM	5719	C	ALA	E	176	-8.593	40.522	19.188	1.00	55.51	E	C
	ATOM	5720	O	ALA	E	176	-9.656	40.521	19.814	1.00	57.49	E	O
20	ATOM	5721	N	ASN	E	177	-7.732	39.504	19.203	1.00	56.33	E	N
	ATOM	5722	CA	ASN	E	177	-7.962	38.265	19.955	1.00	56.79	E	C
	ATOM	5723	CB	ASN	E	177	-6.619	37.598	20.292	1.00	59.04	E	C
	ATOM	5724	CG	ASN	E	177	-5.830	38.360	21.356	1.00	62.81	E	C
	ATOM	5725	OD1	ASN	E	177	-5.793	39.595	21.357	1.00	63.38	E	O
25	ATOM	5726	ND2	ASN	E	177	-5.195	37.622	22.267	1.00	62.24	E	N
	ATOM	5727	C	ASN	E	177	-8.781	38.434	21.238	1.00	54.70	E	C
	ATOM	5728	O	ASN	E	177	-8.341	39.081	22.193	1.00	53.68	E	O
	ATOM	5729	N	GLU	E	178	-9.974	37.845	21.250	1.00	54.13	E	N
	ATOM	5730	CA	GLU	E	178	-10.854	37.918	22.412	1.00	53.73	E	C
30	ATOM	5731	CB	GLU	E	178	-12.282	38.271	21.977	1.00	54.88	E	C
	ATOM	5732	CG	GLU	E	178	-12.461	39.717	21.526	1.00	57.35	E	C
	ATOM	5733	CD	GLU	E	178	-12.219	40.729	22.645	1.00	60.36	E	C
	ATOM	5734	OE1	GLU	E	178	-11.272	40.542	23.440	1.00	59.60	E	O
	ATOM	5735	OE2	GLU	E	178	-12.980	41.719	22.724	1.00	62.58	E	O
35	ATOM	5736	C	GLU	E	178	-10.854	36.591	23.175	1.00	52.06	E	C
	ATOM	5737	O	GLU	E	178	-11.799	36.278	23.902	1.00	52.63	E	O
	ATOM	5738	N	SER	E	179	-9.783	35.819	23.011	1.00	50.72	E	N
	ATOM	5739	CA	SER	E	179	-9.657	34.525	23.675	1.00	46.28	E	C
	ATOM	5740	CB	SER	E	179	-8.682	33.633	22.904	1.00	43.95	E	C
40	ATOM	5741	OG	SER	E	179	-7.655	34.406	22.306	1.00	44.91	E	O
	ATOM	5742	C	SER	E	179	-9.192	34.655	25.124	1.00	44.92	E	C
	ATOM	5743	O	SER	E	179	-9.548	33.828	25.963	1.00	44.79	E	O
	ATOM	5744	N	SER	E	180	-8.400	35.688	25.412	1.00	42.76	E	N
	ATOM	5745	CA	SER	E	180	-7.891	35.916	26.765	1.00	40.60	E	C
45	ATOM	5746	CB	SER	E	180	-6.437	36.375	26.712	1.00	40.56	E	C
	ATOM	5747	OG	SER	E	180	-5.823	35.973	25.500	1.00	43.05	E	O
	ATOM	5748	C	SER	E	180	-8.729	36.958	27.490	1.00	39.16	E	C
	ATOM	5749	O	SER	E	180	-8.287	37.576	28.458	1.00	38.51	E	O
	ATOM	5750	N	TYR	E	181	-9.946	37.145	27.002	1.00	39.89	E	N
50	ATOM	5751	CA	TYR	E	181	-10.873	38.102	27.579	1.00	41.78	E	C
	ATOM	5752	CB	TYR	E	181	-11.948	38.452	26.544	1.00	45.87	E	C
	ATOM	5753	CG	TYR	E	181	-12.214	39.929	26.364	1.00	50.93	E	C
	ATOM	5754	CD1	TYR	E	181	-13.523	40.422	26.344	1.00	53.79	E	C
	ATOM	5755	CE1	TYR	E	181	-13.784	41.783	26.146	1.00	56.40	E	C
55	ATOM	5756	CD2	TYR	E	181	-11.164	40.834	26.185	1.00	52.85	E	C
	ATOM	5757	CE2	TYR	E	181	-11.410	42.199	25.985	1.00	56.53	E	C
	ATOM	5758	CZ	TYR	E	181	-12.723	42.667	25.965	1.00	57.86	E	C
	ATOM	5759	OH	TYR	E	181	-12.974	44.012	25.759	1.00	58.17	E	O
	ATOM	5760	C	TYR	E	181	-11.530	37.482	28.814	1.00	40.38	E	C
60	ATOM	5761	O	TYR	E	181	-11.914	36.307	28.804	1.00	41.37	E	O
	ATOM	5762	N	PRO	E	182	-11.649	38.254	29.905	1.00	38.86	E	N
	ATOM	5763	CD	PRO	E	182	-11.203	39.640	30.117	1.00	34.95	E	C
	ATOM	5764	CA	PRO	E	182	-12.283	37.687	31.099	1.00	37.57	E	C
	ATOM	5765	CB	PRO	E	182	-12.294	38.852	32.093	1.00	35.44	E	C
65	ATOM	5766	CG	PRO	E	182	-12.023	40.073	31.281	1.00	31.82	E	C
	ATOM	5767	C	PRO	E	182	-13.697	37.195	30.776	1.00	38.42	E	C
	ATOM	5768	O	PRO	E	182	-14.285	37.609	29.768	1.00	39.59	E	O
	ATOM	5769	N	VAL	E	183	-14.227	36.302	31.615	1.00	36.64	E	N
	ATOM	5770	CA	VAL	E	183	-15.576	35.768	31.431	1.00	32.96	E	C

	ATOM	5771	CB	VAL	E	183	-15.567	34.233	31.271	1.00	30.94	E	C
	ATOM	5772	CG1	VAL	E	183	-16.944	33.742	30.869	1.00	25.48	E	C
	ATOM	5773	CG2	VAL	E	183	-14.542	33.825	30.231	1.00	31.41	E	C
5	ATOM	5774	C	VAL	E	183	-16.443	36.128	32.639	1.00	33.88	E	C
	ATOM	5775	O	VAL	E	183	-16.351	35.499	33.696	1.00	33.04	E	O
	ATOM	5776	N	PHE	E	184	-17.270	37.155	32.480	1.00	33.17	E	N
	ATOM	5777	CA	PHE	E	184	-18.162	37.603	33.543	1.00	35.36	E	C
	ATOM	5778	CB	PHE	E	184	-18.486	39.088	33.370	1.00	39.96	E	C
10	ATOM	5779	CG	PHE	E	184	-17.336	39.998	33.675	1.00	46.10	E	C
	ATOM	5780	CD1	PHE	E	184	-17.404	40.882	34.747	1.00	49.54	E	C
	ATOM	5781	CD2	PHE	E	184	-16.185	39.982	32.886	1.00	47.19	E	C
	ATOM	5782	CE1	PHE	E	184	-16.338	41.745	35.032	1.00	52.12	E	C
	ATOM	5783	CE2	PHE	E	184	-15.115	40.836	33.160	1.00	47.31	E	C
15	ATOM	5784	CZ	PHE	E	184	-15.192	41.721	34.236	1.00	49.78	E	C
	ATOM	5785	C	PHE	E	184	-19.452	36.807	33.448	1.00	34.59	E	C
	ATOM	5786	O	PHE	E	184	-20.004	36.655	32.360	1.00	35.44	E	O
	ATOM	5787	N	THR	E	185	-19.947	36.294	34.567	1.00	33.14	E	N
	ATOM	5788	CA	THR	E	185	-21.186	35.530	34.499	1.00	33.68	E	C
20	ATOM	5789	CB	THR	E	185	-21.557	34.902	35.876	1.00	30.50	E	C
	ATOM	5790	OG1	THR	E	185	-22.904	35.246	36.228	1.00	30.07	E	O
	ATOM	5791	CG2	THR	E	185	-20.600	35.366	36.943	1.00	29.94	E	C
	ATOM	5792	C	THR	E	185	-22.291	36.461	33.983	1.00	34.04	E	C
	ATOM	5793	O	THR	E	185	-22.397	37.616	34.406	1.00	33.98	E	O
25	ATOM	5794	N	PRO	E	186	-23.109	35.969	33.035	1.00	33.66	E	N
	ATOM	5795	CD	PRO	E	186	-23.031	34.608	32.472	1.00	32.04	E	C
	ATOM	5796	CA	PRO	E	186	-24.205	36.737	32.434	1.00	34.25	E	C
	ATOM	5797	CB	PRO	E	186	-24.816	35.767	31.419	1.00	34.09	E	C
	ATOM	5798	CG	PRO	E	186	-24.395	34.412	31.890	1.00	33.59	E	C
30	ATOM	5799	C	PRO	E	186	-25.252	37.267	33.395	1.00	34.69	E	C
	ATOM	5800	O	PRO	E	186	-25.440	36.733	34.486	1.00	38.33	E	O
	ATOM	5801	N	ALA	E	187	-25.928	38.332	32.978	1.00	33.22	E	N
	ATOM	5802	CA	ALA	E	187	-26.986	38.922	33.780	1.00	35.92	E	C
	ATOM	5803	CB	ALA	E	187	-27.417	40.263	33.181	1.00	30.92	E	C
35	ATOM	5804	C	ALA	E	187	-28.158	37.944	33.772	1.00	36.74	E	C
	ATOM	5805	O	ALA	E	187	-28.464	37.344	32.742	1.00	36.96	E	O
	ATOM	5806	N	LEU	E	188	-28.804	37.759	34.917	1.00	38.73	E	N
	ATOM	5807	CA	LEU	E	188	-29.937	36.855	34.952	1.00	41.72	E	C
	ATOM	5808	CB	LEU	E	188	-30.223	36.380	36.382	1.00	40.99	E	C
40	ATOM	5809	CG	LEU	E	188	-29.917	37.301	37.560	1.00	42.45	E	C
	ATOM	5810	CD1	LEU	E	188	-31.217	37.661	38.276	1.00	43.74	E	C
	ATOM	5811	CD2	LEU	E	188	-28.956	36.601	38.517	1.00	40.45	E	C
	ATOM	5812	C	LEU	E	188	-31.128	37.615	34.393	1.00	42.06	E	C
	ATOM	5813	O	LEU	E	188	-31.225	38.828	34.566	1.00	42.07	E	O
45	ATOM	5814	N	LYS	E	189	-32.020	36.902	33.711	1.00	42.95	E	N
	ATOM	5815	CA	LYS	E	189	-33.203	37.507	33.117	1.00	44.69	E	C
	ATOM	5816	CB	LYS	E	189	-33.990	36.456	32.334	1.00	41.90	E	C
	ATOM	5817	CG	LYS	E	189	-33.123	35.558	31.476	1.00	42.37	E	C
	ATOM	5818	CD	LYS	E	189	-33.010	36.093	30.059	1.00	45.74	E	C
50	ATOM	5819	CE	LYS	E	189	-31.573	36.465	29.707	1.00	48.32	E	C
	ATOM	5820	NZ	LYS	E	189	-30.703	35.263	29.531	1.00	49.40	E	N
	ATOM	5821	C	LYS	E	189	-34.094	38.130	34.182	1.00	47.72	E	C
	ATOM	5822	O	LYS	E	189	-33.951	37.846	35.370	1.00	47.23	E	O
	ATOM	5823	N	LYS	E	190	-35.005	38.996	33.753	1.00	51.41	E	N
55	ATOM	5824	CA	LYS	E	190	-35.926	39.640	34.683	1.00	54.71	E	C
	ATOM	5825	CB	LYS	E	190	-36.966	40.464	33.915	1.00	57.94	E	C
	ATOM	5826	CG	LYS	E	190	-37.728	41.482	34.761	1.00	60.20	E	C
	ATOM	5827	CD	LYS	E	190	-39.227	41.482	34.444	1.00	63.51	E	C
	ATOM	5828	CE	LYS	E	190	-39.504	41.642	32.942	1.00	66.91	E	C
60	ATOM	5829	NZ	LYS	E	190	-40.424	40.586	32.404	1.00	65.82	E	N
	ATOM	5830	C	LYS	E	190	-36.618	38.533	35.466	1.00	55.43	E	C
	ATOM	5831	O	LYS	E	190	-37.176	37.606	34.879	1.00	58.00	E	O
	ATOM	5832	N	GLY	E	191	-36.570	38.616	36.789	1.00	55.40	E	N
	ATOM	5833	CA	GLY	E	191	-37.201	37.590	37.599	1.00	55.83	E	C
65	ATOM	5834	C	GLY	E	191	-36.748	36.188	37.219	1.00	56.00	E	C
	ATOM	5835	O	GLY	E	191	-37.402	35.488	36.428	1.00	57.10	E	O
	ATOM	5836	N	GLU	E	192	-35.613	35.784	37.778	1.00	50.20	E	N
	ATOM	5837	CA	GLU	E	192	-35.052	34.467	37.526	1.00	48.42	E	C
	ATOM	5838	CB	GLU	E	192	-34.002	34.523	36.408	1.00	47.53	E	C

5	ATOM	5839	CG	GLU	E	192	-33.425	33.163	36.019	1.00	46.42	E	C
	ATOM	5840	CD	GLU	E	192	-32.168	33.278	35.171	1.00	46.63	E	C
	ATOM	5841	OE1	GLU	E	192	-31.571	32.233	34.829	1.00	45.95	E	O
	ATOM	5842	OE2	GLU	E	192	-31.775	34.414	34.841	1.00	47.42	E	O
	ATOM	5843	C	GLU	E	192	-34.407	34.036	38.827	1.00	45.19	E	C
	ATOM	5844	O	GLU	E	192	-34.001	34.877	39.625	1.00	44.81	E	O
	ATOM	5845	N	ASP	E	193	-34.329	32.731	39.053	1.00	42.78	E	N
10	ATOM	5846	CA	ASP	E	193	-33.724	32.222	40.271	1.00	36.76	E	C
	ATOM	5847	CB	ASP	E	193	-34.039	30.735	40.436	1.00	38.10	E	C
	ATOM	5848	CG	ASP	E	193	-33.761	30.234	41.836	1.00	39.58	E	C
	ATOM	5849	OD1	ASP	E	193	-33.220	29.118	41.966	1.00	44.48	E	O
	ATOM	5850	OD2	ASP	E	193	-34.080	30.949	42.807	1.00	41.05	E	O
15	ATOM	5851	C	ASP	E	193	-32.216	32.443	40.212	1.00	32.85	E	C
	ATOM	5852	O	ASP	E	193	-31.522	31.892	39.357	1.00	30.42	E	O
	ATOM	5853	N	PRO	E	194	-31.689	33.272	41.119	1.00	30.29	E	N
	ATOM	5854	CD	PRO	E	194	-32.385	34.015	42.179	1.00	27.82	E	C
	ATOM	5855	CA	PRO	E	194	-30.251	33.533	41.126	1.00	29.79	E	C
20	ATOM	5856	CB	PRO	E	194	-30.101	34.746	42.044	1.00	27.94	E	C
	ATOM	5857	CG	PRO	E	194	-31.493	35.181	42.394	1.00	26.40	E	C
	ATOM	5858	C	PRO	E	194	-29.475	32.337	41.646	1.00	29.24	E	C
	ATOM	5859	O	PRO	E	194	-28.252	32.275	41.510	1.00	31.31	E	O
	ATOM	5860	N	PHE	E	195	-30.189	31.379	42.224	1.00	29.59	E	N
25	ATOM	5861	CA	PHE	E	195	-29.544	30.199	42.785	1.00	29.78	E	C
	ATOM	5862	CB	PHE	E	195	-29.919	30.089	44.264	1.00	27.64	E	C
	ATOM	5863	CG	PHE	E	195	-29.712	31.368	45.025	1.00	26.46	E	C
	ATOM	5864	CD1	PHE	E	195	-28.424	31.813	45.330	1.00	24.59	E	C
	ATOM	5865	CD2	PHE	E	195	-30.792	32.157	45.392	1.00	24.94	E	C
30	ATOM	5866	CE1	PHE	E	195	-28.223	33.026	45.985	1.00	21.35	E	C
	ATOM	5867	CE2	PHE	E	195	-30.594	33.376	46.050	1.00	25.46	E	C
	ATOM	5868	CZ	PHE	E	195	-29.308	33.806	46.343	1.00	20.21	E	C
	ATOM	5869	C	PHE	E	195	-29.836	28.885	42.063	1.00	31.39	E	C
	ATOM	5870	O	PHE	E	195	-29.775	27.816	42.670	1.00	30.96	E	O
35	ATOM	5871	N	ARG	E	196	-30.136	28.972	40.766	1.00	33.86	E	N
	ATOM	5872	CA	ARG	E	196	-30.434	27.794	39.952	1.00	35.35	E	C
	ATOM	5873	CB	ARG	E	196	-30.683	28.199	38.497	1.00	36.52	E	C
	ATOM	5874	CG	ARG	E	196	-31.754	29.248	38.324	1.00	39.50	E	C
	ATOM	5875	CD	ARG	E	196	-32.083	29.456	36.863	1.00	44.07	E	C
40	ATOM	5876	NE	ARG	E	196	-32.181	28.189	36.150	1.00	46.61	E	N
	ATOM	5877	CZ	ARG	E	196	-32.724	28.052	34.947	1.00	46.92	E	C
	ATOM	5878	NH1	ARG	E	196	-33.222	29.108	34.318	1.00	45.58	E	N
	ATOM	5879	NH2	ARG	E	196	-32.768	26.858	34.375	1.00	47.47	E	N
	ATOM	5880	C	ARG	E	196	-29.295	26.784	39.999	1.00	33.93	E	C
45	ATOM	5881	O	ARG	E	196	-28.127	27.144	39.885	1.00	33.22	E	O
	ATOM	5882	N	THR	E	197	-29.642	25.512	40.138	1.00	34.16	E	N
	ATOM	5883	CA	THR	E	197	-28.634	24.469	40.211	1.00	35.63	E	C
	ATOM	5884	CB	THR	E	197	-28.682	23.789	41.593	1.00	35.95	E	C
	ATOM	5885	OG1	THR	E	197	-27.480	23.044	41.801	1.00	37.47	E	O
50	ATOM	5886	CG2	THR	E	197	-29.887	22.861	41.698	1.00	35.91	E	C
	ATOM	5887	C	THR	E	197	-28.788	23.407	39.121	1.00	36.62	E	C
	ATOM	5888	O	THR	E	197	-28.138	22.363	39.170	1.00	35.31	E	O
	ATOM	5889	N	ASP	E	198	-29.630	23.689	38.129	1.00	38.12	E	N
	ATOM	5890	CA	ASP	E	198	-29.896	22.746	37.044	1.00	38.37	E	C
55	ATOM	5891	CB	ASP	E	198	-31.379	22.783	36.690	1.00	37.60	E	C
	ATOM	5892	CG	ASP	E	198	-31.840	24.161	36.269	1.00	39.60	E	C
	ATOM	5893	OD1	ASP	E	198	-31.814	25.079	37.111	1.00	41.38	E	O
	ATOM	5894	OD2	ASP	E	198	-32.230	24.333	35.095	1.00	41.40	E	O
	ATOM	5895	C	ASP	E	198	-29.089	22.946	35.768	1.00	39.12	E	C
60	ATOM	5896	O	ASP	E	198	-29.228	22.174	34.819	1.00	39.66	E	O
	ATOM	5897	N	ASN	E	199	-28.249	23.971	35.735	1.00	40.31	E	N
	ATOM	5898	CA	ASN	E	199	-27.454	24.247	34.544	1.00	39.89	E	C
	ATOM	5899	CB	ASN	E	199	-27.751	25.661	34.047	1.00	44.70	E	C
	ATOM	5900	CG	ASN	E	199	-28.042	26.630	35.188	1.00	51.64	E	C
65	ATOM	5901	OD1	ASN	E	199	-28.846	27.558	35.045	1.00	52.63	E	O
	ATOM	5902	ND2	ASN	E	199	-27.385	26.417	36.333	1.00	52.26	E	N
	ATOM	5903	C	ASN	E	199	-25.960	24.096	34.800	1.00	37.35	E	C
	ATOM	5904	O	ASN	E	199	-25.142	24.691	34.098	1.00	38.29	E	O
	ATOM	5905	N	LEU	E	200	-25.606	23.292	35.797	1.00	34.38	E	N
	ATOM	5906	CA	LEU	E	200	-24.204	23.082	36.143	1.00	32.58	E	C

	ATOM	5907	CB	LEU	E	200	-24.066	22.706	37.623	1.00	31.49	E	C
	ATOM	5908	CG	LEU	E	200	-24.468	23.712	38.701	1.00	31.39	E	C
	ATOM	5909	CD1	LEU	E	200	-24.595	22.993	40.021	1.00	28.86	E	C
	ATOM	5910	CD2	LEU	E	200	-23.426	24.814	38.802	1.00	32.43	E	C
5	ATOM	5911	C	LEU	E	200	-23.556	21.988	35.304	1.00	30.02	E	C
	ATOM	5912	O	LEU	E	200	-24.199	21.001	34.953	1.00	30.50	E	O
	ATOM	5913	N	PRO	E	201	-22.269	22.158	34.969	1.00	26.63	E	N
	ATOM	5914	CD	PRO	E	201	-21.440	23.327	35.297	1.00	25.56	E	C
	ATOM	5915	CA	PRO	E	201	-21.529	21.177	34.174	1.00	27.26	E	C
10	ATOM	5916	CB	PRO	E	201	-20.140	21.801	34.039	1.00	25.89	E	C
	ATOM	5917	CG	PRO	E	201	-20.348	23.248	34.291	1.00	24.35	E	C
	ATOM	5918	C	PRO	E	201	-21.484	19.813	34.873	1.00	30.74	E	C
	ATOM	5919	O	PRO	E	201	-21.994	19.659	35.980	1.00	32.99	E	O
	ATOM	5920	N	GLU	E	202	-20.875	18.829	34.224	1.00	31.84	E	N
15	ATOM	5921	CA	GLU	E	202	-20.774	17.494	34.793	1.00	36.02	E	C
	ATOM	5922	CB	GLU	E	202	-20.873	16.447	33.679	1.00	42.19	E	C
	ATOM	5923	CG	GLU	E	202	-21.922	16.774	32.609	1.00	52.14	E	C
	ATOM	5924	CD	GLU	E	202	-21.798	15.897	31.358	1.00	58.90	E	C
	ATOM	5925	OE1	GLU	E	202	-20.680	15.391	31.085	1.00	58.69	E	O
20	ATOM	5926	OE2	GLU	E	202	-22.822	15.719	30.650	1.00	59.42	E	O
	ATOM	5927	C	GLU	E	202	-19.448	17.349	35.525	1.00	34.96	E	C
	ATOM	5928	O	GLU	E	202	-18.515	18.108	35.279	1.00	36.66	E	O
	ATOM	5929	N	ASN	E	203	-19.361	16.382	36.430	1.00	34.16	E	N
	ATOM	5930	CA	ASN	E	203	-18.123	16.168	37.174	1.00	35.42	E	C
25	ATOM	5931	CB	ASN	E	203	-18.351	15.194	38.332	1.00	33.05	E	C
	ATOM	5932	CG	ASN	E	203	-19.284	15.750	39.390	1.00	34.21	E	C
	ATOM	5933	OD1	ASN	E	203	-19.584	15.080	40.379	1.00	35.10	E	O
	ATOM	5934	ND2	ASN	E	203	-19.752	16.978	39.187	1.00	35.86	E	N
	ATOM	5935	C	ASN	E	203	-17.053	15.611	36.245	1.00	34.00	E	C
30	ATOM	5936	O	ASN	E	203	-17.366	14.901	35.293	1.00	33.14	E	O
	ATOM	5937	N	LEU	E	204	-15.794	15.928	36.529	1.00	33.65	E	N
	ATOM	5938	CA	LEU	E	204	-14.687	15.465	35.704	1.00	34.25	E	C
	ATOM	5939	CB	LEU	E	204	-13.917	16.662	35.145	1.00	33.81	E	C
	ATOM	5940	CG	LEU	E	204	-14.682	17.481	34.103	1.00	33.83	E	C
35	ATOM	5941	CD1	LEU	E	204	-13.913	18.750	33.780	1.00	31.80	E	C
	ATOM	5942	CD2	LEU	E	204	-14.897	16.650	32.851	1.00	31.30	E	C
	ATOM	5943	C	LEU	E	204	-13.737	14.541	36.456	1.00	34.33	E	C
	ATOM	5944	O	LEU	E	204	-12.855	13.928	35.860	1.00	36.55	E	O
	ATOM	5945	N	GLY	E	205	-13.918	14.452	37.766	1.00	33.94	E	N
40	ATOM	5946	CA	GLY	E	205	-13.084	13.584	38.572	1.00	35.16	E	C
	ATOM	5947	C	GLY	E	205	-11.575	13.647	38.383	1.00	36.23	E	C
	ATOM	5948	O	GLY	E	205	-10.898	12.627	38.545	1.00	37.15	E	O
	ATOM	5949	N	TYR	E	206	-11.031	14.810	38.037	1.00	34.70	E	N
	ATOM	5950	CA	TYR	E	206	-9.581	14.916	37.886	1.00	35.01	E	C
45	ATOM	5951	CB	TYR	E	206	-9.181	16.234	37.216	1.00	36.53	E	C
	ATOM	5952	CG	TYR	E	206	-9.596	16.379	35.768	1.00	38.58	E	C
	ATOM	5953	CD1	TYR	E	206	-9.692	15.271	34.926	1.00	39.65	E	C
	ATOM	5954	CE1	TYR	E	206	-10.058	15.413	33.588	1.00	40.58	E	C
	ATOM	5955	CD2	TYR	E	206	-9.879	17.637	35.234	1.00	40.52	E	C
50	ATOM	5956	CE2	TYR	E	206	-10.245	17.793	33.903	1.00	41.30	E	C
	ATOM	5957	CZ	TYR	E	206	-10.333	16.679	33.084	1.00	42.56	E	C
	ATOM	5958	OH	TYR	E	206	-10.699	16.840	31.765	1.00	42.67	E	O
	ATOM	5959	C	TYR	E	206	-9.001	14.892	39.296	1.00	34.92	E	C
	ATOM	5960	O	TYR	E	206	-9.733	15.037	40.278	1.00	34.37	E	O
55	ATOM	5961	N	HIS	E	207	-7.690	14.716	39.400	1.00	34.35	E	N
	ATOM	5962	CA	HIS	E	207	-7.047	14.684	40.705	1.00	34.88	E	C
	ATOM	5963	CB	HIS	E	207	-6.079	13.499	40.787	1.00	36.14	E	C
	ATOM	5964	CG	HIS	E	207	-5.440	13.336	42.130	1.00	40.23	E	C
	ATOM	5965	CD2	HIS	E	207	-5.912	12.807	43.285	1.00	39.44	E	C
60	ATOM	5966	ND1	HIS	E	207	-4.160	13.775	42.404	1.00	42.60	E	N
	ATOM	5967	CE1	HIS	E	207	-3.875	13.524	43.671	1.00	42.58	E	C
	ATOM	5968	NE2	HIS	E	207	-4.920	12.937	44.227	1.00	40.98	E	N
	ATOM	5969	C	HIS	E	207	-6.296	15.993	40.945	1.00	35.20	E	C
	ATOM	5970	O	HIS	E	207	-5.396	16.348	40.181	1.00	35.96	E	O
65	ATOM	5971	N	LEU	E	208	-6.676	16.714	41.999	1.00	34.26	E	N
	ATOM	5972	CA	LEU	E	208	-6.038	17.983	42.334	1.00	30.60	E	C
	ATOM	5973	CB	LEU	E	208	-7.074	18.957	42.876	1.00	29.65	E	C
	ATOM	5974	CG	LEU	E	208	-8.226	19.260	41.926	1.00	28.25	E	C

	ATOM	5975	CD1	LEU	E	208	-9.317	19.967	42.696	1.00	28.11	E	C
	ATOM	5976	CD2	LEU	E	208	-7.741	20.113	40.756	1.00	28.14	E	C
	ATOM	5977	C	LEU	E	208	-4.939	17.793	43.366	1.00	31.97	E	C
	ATOM	5978	O	LEU	E	208	-5.067	16.986	44.282	1.00	33.11	E	O
5	ATOM	5979	N	LYS	E	209	-3.857	18.547	43.220	1.00	32.92	E	N
	ATOM	5980	CA	LYS	E	209	-2.743	18.441	44.148	1.00	33.86	E	C
	ATOM	5981	CB	LYS	E	209	-1.868	17.245	43.766	1.00	35.33	E	C
	ATOM	5982	CG	LYS	E	209	-0.772	16.917	44.769	1.00	34.72	E	C
10	ATOM	5983	CD	LYS	E	209	0.184	15.865	44.211	1.00	39.37	E	C
	ATOM	5984	CE	LYS	E	209	1.202	15.419	45.263	1.00	40.16	E	C
	ATOM	5985	NZ	LYS	E	209	2.422	14.818	44.647	1.00	39.49	E	N
	ATOM	5986	C	LYS	E	209	-1.899	19.711	44.170	1.00	33.52	E	C
	ATOM	5987	O	LYS	E	209	-1.548	20.260	43.123	1.00	34.53	E	O
	ATOM	5988	N	MET	E	210	-1.579	20.171	45.372	1.00	32.42	E	N
15	ATOM	5989	CA	MET	E	210	-0.770	21.364	45.546	1.00	30.92	E	C
	ATOM	5990	CB	MET	E	210	-0.779	21.787	47.014	1.00	32.14	E	C
	ATOM	5991	CG	MET	E	210	-0.445	23.250	47.244	1.00	35.25	E	C
	ATOM	5992	SD	MET	E	210	-1.893	24.333	47.297	1.00	33.75	E	S
20	ATOM	5993	CE	MET	E	210	-3.185	23.178	46.996	1.00	27.88	E	C
	ATOM	5994	C	MET	E	210	0.654	21.060	45.117	1.00	30.51	E	C
	ATOM	5995	O	MET	E	210	1.144	19.952	45.317	1.00	29.81	E	O
	ATOM	5996	N	LYS	E	211	1.313	22.042	44.518	1.00	31.94	E	N
	ATOM	5997	CA	LYS	E	211	2.695	21.880	44.084	1.00	32.48	E	C
	ATOM	5998	CB	LYS	E	211	2.755	21.376	42.647	1.00	33.83	E	C
25	ATOM	5999	CG	LYS	E	211	4.120	20.843	42.257	1.00	34.43	E	C
	ATOM	6000	CD	LYS	E	211	4.585	21.461	40.960	1.00	38.14	E	C
	ATOM	6001	CE	LYS	E	211	4.766	20.409	39.889	1.00	39.32	E	C
	ATOM	6002	NZ	LYS	E	211	6.119	19.795	39.972	1.00	43.38	E	N
	ATOM	6003	C	LYS	E	211	3.415	23.213	44.184	1.00	33.34	E	C
30	ATOM	6004	O	LYS	E	211	3.172	24.123	43.388	1.00	36.04	E	O
	ATOM	6005	N	ASP	E	212	4.289	23.326	45.177	1.00	32.39	E	N
	ATOM	6006	CA	ASP	E	212	5.052	24.548	45.404	1.00	31.90	E	C
	ATOM	6007	CB	ASP	E	212	6.071	24.755	44.278	1.00	33.78	E	C
	ATOM	6008	CG	ASP	E	212	7.190	23.726	44.311	1.00	36.07	E	C
35	ATOM	6009	OD1	ASP	E	212	7.512	23.216	45.408	1.00	36.65	E	O
	ATOM	6010	OD2	ASP	E	212	7.751	23.426	43.236	1.00	40.39	E	O
	ATOM	6011	C	ASP	E	212	4.173	25.788	45.548	1.00	29.18	E	C
	ATOM	6012	O	ASP	E	212	4.515	26.864	45.060	1.00	28.72	E	O
	ATOM	6013	N	GLY	E	213	3.038	25.629	46.220	1.00	27.86	E	N
40	ATOM	6014	CA	GLY	E	213	2.147	26.752	46.446	1.00	24.07	E	C
	ATOM	6015	C	GLY	E	213	1.035	26.938	45.439	1.00	23.79	E	C
	ATOM	6016	O	GLY	E	213	0.212	27.846	45.584	1.00	24.43	E	O
	ATOM	6017	N	VAL	E	214	0.989	26.086	44.422	1.00	22.28	E	N
	ATOM	6018	CA	VAL	E	214	-0.042	26.216	43.396	1.00	23.44	E	C
45	ATOM	6019	CB	VAL	E	214	0.590	26.652	42.037	1.00	24.47	E	C
	ATOM	6020	CG1	VAL	E	214	-0.491	26.783	40.961	1.00	23.08	E	C
	ATOM	6021	CG2	VAL	E	214	1.326	27.986	42.205	1.00	22.59	E	C
	ATOM	6022	C	VAL	E	214	-0.827	24.925	43.195	1.00	22.42	E	C
	ATOM	6023	O	VAL	E	214	-0.262	23.836	43.257	1.00	26.64	E	O
50	ATOM	6024	N	VAL	E	215	-2.129	25.047	42.961	1.00	20.85	E	N
	ATOM	6025	CA	VAL	E	215	-2.966	23.872	42.734	1.00	21.98	E	C
	ATOM	6026	CB	VAL	E	215	-4.469	24.191	42.886	1.00	21.99	E	C
	ATOM	6027	CG1	VAL	E	215	-5.301	22.957	42.551	1.00	18.43	E	C
	ATOM	6028	CG2	VAL	E	215	-4.766	24.669	44.306	1.00	20.76	E	C
55	ATOM	6029	C	VAL	E	215	-2.745	23.356	41.316	1.00	24.48	E	C
	ATOM	6030	O	VAL	E	215	-3.015	24.061	40.347	1.00	22.71	E	O
	ATOM	6031	N	TYR	E	216	-2.245	22.127	41.202	1.00	27.49	E	N
	ATOM	6032	CA	TYR	E	216	-2.000	21.514	39.899	1.00	27.09	E	C
	ATOM	6033	CB	TYR	E	216	-0.619	20.866	39.864	1.00	27.10	E	C
60	ATOM	6034	CG	TYR	E	216	0.469	21.798	39.390	1.00	28.05	E	C
	ATOM	6035	CD1	TYR	E	216	1.149	21.559	38.196	1.00	27.65	E	C
	ATOM	6036	CE1	TYR	E	216	2.167	22.410	37.763	1.00	26.35	E	C
	ATOM	6037	CD2	TYR	E	216	0.831	22.916	40.144	1.00	28.87	E	C
	ATOM	6038	CE2	TYR	E	216	1.844	23.771	39.720	1.00	28.29	E	C
65	ATOM	6039	CZ	TYR	E	216	2.509	23.510	38.529	1.00	28.02	E	C
	ATOM	6040	OH	TYR	E	216	3.519	24.349	38.112	1.00	30.19	E	O
	ATOM	6041	C	TYR	E	216	-3.058	20.463	39.613	1.00	28.29	E	C
	ATOM	6042	O	TYR	E	216	-3.494	19.749	40.516	1.00	25.73	E	O

	ATOM	6043	N	ILE	E	217	-3.469	20.374	38.352	1.00	32.17	E	N
	ATOM	6044	CA	ILE	E	217	-4.494	19.415	37.955	1.00	36.47	E	C
	ATOM	6045	CB	ILE	E	217	-5.594	20.088	37.105	1.00	35.63	E	C
5	ATOM	6046	CG2	ILE	E	217	-6.764	19.137	36.928	1.00	34.07	E	C
	ATOM	6047	CG1	ILE	E	217	-6.058	21.384	37.779	1.00	35.28	E	C
	ATOM	6048	CD1	ILE	E	217	-6.033	22.596	36.852	1.00	35.31	E	C
	ATOM	6049	C	ILE	E	217	-3.918	18.251	37.157	1.00	38.85	E	C
	ATOM	6050	O	ILE	E	217	-3.261	18.446	36.127	1.00	39.57	E	O
10	ATOM	6051	N	TYR	E	218	-4.170	17.039	37.646	1.00	40.18	E	N
	ATOM	6052	CA	TYR	E	218	-3.694	15.833	36.990	1.00	40.30	E	C
	ATOM	6053	CB	TYR	E	218	-2.898	14.982	37.972	1.00	36.53	E	C
	ATOM	6054	CG	TYR	E	218	-1.658	15.693	38.454	1.00	36.47	E	C
	ATOM	6055	CD1	TYR	E	218	-0.477	15.647	37.715	1.00	36.13	E	C
15	ATOM	6056	CE1	TYR	E	218	0.648	16.359	38.115	1.00	35.65	E	C
	ATOM	6057	CD2	TYR	E	218	-1.681	16.468	39.616	1.00	35.74	E	C
	ATOM	6058	CE2	TYR	E	218	-0.561	17.184	40.025	1.00	36.11	E	C
	ATOM	6059	CZ	TYR	E	218	0.597	17.127	39.268	1.00	36.92	E	C
	ATOM	6060	OH	TYR	E	218	1.704	17.848	39.659	1.00	39.35	E	O
20	ATOM	6061	C	TYR	E	218	-4.896	15.074	36.462	1.00	44.45	E	C
	ATOM	6062	O	TYR	E	218	-5.817	14.742	37.210	1.00	43.74	E	O
	ATOM	6063	N	ALA	E	219	-4.881	14.825	35.157	1.00	49.65	E	N
	ATOM	6064	CA	ALA	E	219	-5.964	14.126	34.481	1.00	54.31	E	C
	ATOM	6065	CB	ALA	E	219	-5.551	13.781	33.048	1.00	54.87	E	C
25	ATOM	6066	C	ALA	E	219	-6.373	12.867	35.221	1.00	56.87	E	C
	ATOM	6067	O	ALA	E	219	-5.526	12.041	35.549	1.00	57.34	E	O
	ATOM	6068	N	ASN	E	220	-7.677	12.752	35.473	1.00	60.61	E	N
	ATOM	6069	CA	ASN	E	220	-8.312	11.619	36.159	1.00	63.74	E	C
	ATOM	6070	CB	ASN	E	220	-9.473	11.079	35.300	1.00	64.64	E	C
30	ATOM	6071	CG	ASN	E	220	-9.688	11.884	34.015	1.00	66.23	E	C
	ATOM	6072	OD1	ASN	E	220	-10.786	12.382	33.760	1.00	67.99	E	O
	ATOM	6073	ND2	ASN	E	220	-8.639	12.008	33.203	1.00	66.47	E	N
	ATOM	6074	C	ASN	E	220	-7.360	10.474	36.504	1.00	64.26	E	C
	ATOM	6075	O	ASN	E	220	-7.621	9.308	36.184	1.00	65.61	E	O
35	ATOM	6076	N	GLU	E	221	-6.268	10.806	37.182	1.00	63.12	E	N
	ATOM	6077	CA	GLU	E	221	-5.279	9.806	37.536	1.00	62.36	E	C
	ATOM	6078	CB	GLU	E	221	-4.295	9.599	36.381	1.00	63.33	E	C
	ATOM	6079	CG	GLU	E	221	-4.501	8.333	35.584	1.00	65.45	E	C
	ATOM	6080	CD	GLU	E	221	-3.677	8.317	34.304	1.00	69.64	E	C
40	ATOM	6081	OE1	GLU	E	221	-2.451	8.560	34.381	1.00	70.00	E	O
	ATOM	6082	OE2	GLU	E	221	-4.254	8.065	33.222	1.00	70.20	E	O
	ATOM	6083	C	GLU	E	221	-4.497	10.238	38.754	1.00	61.25	E	C
	ATOM	6084	O	GLU	E	221	-3.849	11.288	38.747	1.00	59.77	E	O
	ATOM	6085	N	ALA	E	222	-4.559	9.427	39.801	1.00	60.22	E	N
45	ATOM	6086	CA	ALA	E	222	-3.799	9.719	41.000	1.00	59.93	E	C
	ATOM	6087	CB	ALA	E	222	-4.199	8.775	42.126	1.00	59.11	E	C
	ATOM	6088	C	ALA	E	222	-2.346	9.487	40.578	1.00	59.82	E	C
	ATOM	6089	O	ALA	E	222	-1.435	9.466	41.403	1.00	59.61	E	O
	ATOM	6090	N	ALA	E	223	-2.158	9.303	39.272	1.00	60.55	E	N
50	ATOM	6091	CA	ALA	E	223	-0.845	9.101	38.675	1.00	62.51	E	C
	ATOM	6092	CB	ALA	E	223	-0.989	8.551	37.264	1.00	61.08	E	C
	ATOM	6093	C	ALA	E	223	-0.126	10.449	38.643	1.00	64.99	E	C
	ATOM	6094	O	ALA	E	223	0.562	10.791	37.674	1.00	64.16	E	O
	ATOM	6095	N	ALA	E	224	-0.327	11.223	39.707	1.00	65.61	E	N
55	ATOM	6096	CA	ALA	E	224	0.309	12.520	39.859	1.00	63.98	E	C
	ATOM	6097	CB	ALA	E	224	-0.450	13.364	40.870	1.00	62.45	E	C
	ATOM	6098	C	ALA	E	224	1.705	12.208	40.373	1.00	65.32	E	C
	ATOM	6099	O	ALA	E	224	2.530	13.107	40.551	1.00	65.43	E	O
	ATOM	6100	N	GLY	E	225	1.946	10.918	40.625	1.00	65.88	E	N
60	ATOM	6101	CA	GLY	E	225	3.246	10.464	41.095	1.00	65.63	E	C
	ATOM	6102	C	GLY	E	225	4.248	10.961	40.079	1.00	66.15	E	C
	ATOM	6103	O	GLY	E	225	5.304	11.498	40.420	1.00	66.22	E	O
	ATOM	6104	N	LYS	E	226	3.906	10.765	38.810	1.00	65.86	E	N
	ATOM	6105	CA	LYS	E	226	4.734	11.251	37.723	1.00	64.83	E	C
	ATOM	6106	CB	LYS	E	226	4.575	10.374	36.477	1.00	66.12	E	C
65	ATOM	6107	CG	LYS	E	226	5.854	10.224	35.660	1.00	67.34	E	C
	ATOM	6108	CD	LYS	E	226	6.674	9.020	36.117	1.00	67.57	E	C
	ATOM	6109	CE	LYS	E	226	7.590	8.513	35.007	1.00	68.69	E	C
	ATOM	6110	NZ	LYS	E	226	6.993	7.365	34.265	1.00	69.70	E	N

	ATOM	6111	C	LYS	E	226	4.149	12.637	37.470	1.00	64.75	E	C
	ATOM	6112	O	LYS	E	226	2.956	12.773	37.175	1.00	65.47	E	O
	ATOM	6113	N	ASP	E	227	4.973	13.666	37.627	1.00	62.64	E	N
	ATOM	6114	CA	ASP	E	227	4.515	15.030	37.417	1.00	59.56	E	C
5	ATOM	6115	CB	ASP	E	227	5.647	16.010	37.702	1.00	62.20	E	C
	ATOM	6116	CG	ASP	E	227	5.354	16.900	38.889	1.00	64.83	E	C
	ATOM	6117	OD1	ASP	E	227	5.969	16.678	39.960	1.00	64.44	E	O
	ATOM	6118	OD2	ASP	E	227	4.507	17.814	38.746	1.00	64.36	E	O
10	ATOM	6119	C	ASP	E	227	4.016	15.212	35.990	1.00	57.65	E	C
	ATOM	6120	O	ASP	E	227	4.715	15.760	35.138	1.00	55.78	E	O
	ATOM	6121	N	GLU	E	228	2.798	14.745	35.738	1.00	55.56	E	N
	ATOM	6122	CA	GLU	E	228	2.203	14.846	34.414	1.00	53.25	E	C
	ATOM	6123	CB	GLU	E	228	2.080	13.457	33.785	1.00	53.39	E	C
	ATOM	6124	CG	GLU	E	228	3.337	13.009	33.061	1.00	56.15	E	C
15	ATOM	6125	CD	GLU	E	228	3.526	11.502	33.083	1.00	58.23	E	C
	ATOM	6126	OE1	GLU	E	228	2.518	10.770	32.976	1.00	58.22	E	O
	ATOM	6127	OE2	GLU	E	228	4.687	11.052	33.205	1.00	59.49	E	O
	ATOM	6128	C	GLU	E	228	0.833	15.495	34.508	1.00	50.98	E	C
	ATOM	6129	O	GLU	E	228	-0.195	14.843	34.304	1.00	54.11	E	O
20	ATOM	6130	N	PRO	E	229	0.800	16.796	34.830	1.00	46.87	E	N
	ATOM	6131	CD	PRO	E	229	1.952	17.672	35.105	1.00	45.44	E	C
	ATOM	6132	CA	PRO	E	229	-0.476	17.504	34.943	1.00	42.55	E	C
	ATOM	6133	CB	PRO	E	229	-0.083	18.859	35.525	1.00	42.81	E	C
	ATOM	6134	CG	PRO	E	229	1.342	19.043	35.125	1.00	42.66	E	C
25	ATOM	6135	C	PRO	E	229	-1.158	17.635	33.592	1.00	40.17	E	C
	ATOM	6136	O	PRO	E	229	-0.521	17.488	32.551	1.00	36.48	E	O
	ATOM	6137	N	LYS	E	230	-2.459	17.897	33.614	1.00	39.98	E	N
	ATOM	6138	CA	LYS	E	230	-3.213	18.063	32.384	1.00	41.51	E	C
	ATOM	6139	CB	LYS	E	230	-4.674	18.384	32.691	1.00	43.04	E	C
30	ATOM	6140	CG	LYS	E	230	-5.589	17.174	32.692	1.00	46.30	E	C
	ATOM	6141	CD	LYS	E	230	-6.087	16.873	31.293	1.00	48.84	E	C
	ATOM	6142	CE	LYS	E	230	-7.600	16.766	31.260	1.00	50.45	E	C
	ATOM	6143	NZ	LYS	E	230	-8.042	15.338	31.242	1.00	53.96	E	N
	ATOM	6144	C	LYS	E	230	-2.594	19.226	31.628	1.00	44.44	E	C
35	ATOM	6145	O	LYS	E	230	-2.258	20.248	32.230	1.00	44.79	E	O
	ATOM	6146	N	PRO	E	231	-2.427	19.083	30.301	1.00	46.13	E	N
	ATOM	6147	CD	PRO	E	231	-2.787	17.905	29.490	1.00	46.02	E	C
	ATOM	6148	CA	PRO	E	231	-1.841	20.144	29.479	1.00	44.82	E	C
	ATOM	6149	CB	PRO	E	231	-2.240	19.749	28.064	1.00	45.80	E	C
40	ATOM	6150	CG	PRO	E	231	-2.264	18.257	28.116	1.00	46.13	E	C
	ATOM	6151	C	PRO	E	231	-2.379	21.508	29.875	1.00	44.10	E	C
	ATOM	6152	O	PRO	E	231	-3.594	21.724	29.912	1.00	43.77	E	O
	ATOM	6153	N	LEU	E	232	-1.464	22.422	30.173	1.00	44.20	E	N
	ATOM	6154	CA	LEU	E	232	-1.836	23.766	30.591	1.00	43.22	E	C
45	ATOM	6155	CB	LEU	E	232	-2.705	23.684	31.849	1.00	40.90	E	C
	ATOM	6156	CG	LEU	E	232	-3.533	24.892	32.280	1.00	41.21	E	C
	ATOM	6157	CD1	LEU	E	232	-4.855	24.413	32.874	1.00	39.68	E	C
	ATOM	6158	CD2	LEU	E	232	-2.751	25.706	33.300	1.00	40.25	E	C
	ATOM	6159	C	LEU	E	232	-0.587	24.599	30.879	1.00	44.03	E	C
50	ATOM	6160	O	LEU	E	232	0.455	24.068	31.284	1.00	42.47	E	O
	ATOM	6161	N	LEU	E	233	-0.693	25.904	30.651	1.00	43.86	E	N
	ATOM	6162	CA	LEU	E	233	0.419	26.813	30.910	1.00	42.29	E	C
	ATOM	6163	CB	LEU	E	233	0.324	28.044	30.004	1.00	46.41	E	C
	ATOM	6164	CG	LEU	E	233	-0.952	28.882	30.182	1.00	50.54	E	C
55	ATOM	6165	CD1	LEU	E	233	-0.702	30.305	29.677	1.00	50.07	E	C
	ATOM	6166	CD2	LEU	E	233	-2.127	28.221	29.445	1.00	48.47	E	C
	ATOM	6167	C	LEU	E	233	0.301	27.234	32.370	1.00	39.73	E	C
	ATOM	6168	O	LEU	E	233	-0.654	27.912	32.755	1.00	37.82	E	O
	ATOM	6169	N	TYR	E	234	1.258	26.807	33.185	1.00	36.28	E	N
60	ATOM	6170	CA	TYR	E	234	1.245	27.147	34.599	1.00	33.06	E	C
	ATOM	6171	CB	TYR	E	234	1.692	25.941	35.436	1.00	30.99	E	C
	ATOM	6172	CG	TYR	E	234	0.681	24.808	35.455	1.00	32.49	E	C
	ATOM	6173	CD1	TYR	E	234	0.604	23.901	34.397	1.00	29.65	E	C
	ATOM	6174	CE1	TYR	E	234	-0.337	22.875	34.394	1.00	28.94	E	C
65	ATOM	6175	CD2	TYR	E	234	-0.214	24.653	36.521	1.00	29.26	E	C
	ATOM	6176	CE2	TYR	E	234	-1.162	23.627	36.527	1.00	28.20	E	C
	ATOM	6177	CZ	TYR	E	234	-1.217	22.743	35.457	1.00	30.44	E	C
	ATOM	6178	OH	TYR	E	234	-2.162	21.732	35.422	1.00	34.11	E	O

	ATOM	6179	C	TYR	E	234	2.170	28.333	34.846	1.00	31.96	E	C
	ATOM	6180	O	TYR	E	234	2.986	28.686	33.992	1.00	31.07	E	O
	ATOM	6181	N	PRO	E	235	2.033	28.984	36.009	1.00	30.70	E	N
5	ATOM	6182	CD	PRO	E	235	1.065	28.708	37.085	1.00	30.56	E	C
	ATOM	6183	CA	PRO	E	235	2.886	30.130	36.322	1.00	30.12	E	C
	ATOM	6184	CB	PRO	E	235	2.450	30.529	37.732	1.00	30.95	E	C
	ATOM	6185	CG	PRO	E	235	1.067	29.976	37.875	1.00	28.82	E	C
	ATOM	6186	C	PRO	E	235	4.359	29.732	36.273	1.00	30.58	E	C
10	ATOM	6187	O	PRO	E	235	4.713	28.611	36.630	1.00	31.63	E	O
	ATOM	6188	N	ASN	E	236	5.211	30.649	35.828	1.00	30.12	E	N
	ATOM	6189	CA	ASN	E	236	6.645	30.392	35.746	1.00	29.25	E	C
	ATOM	6190	CB	ASN	E	236	7.125	30.591	34.312	1.00	31.47	E	C
	ATOM	6191	CG	ASN	E	236	8.567	30.198	34.124	1.00	33.08	E	C
15	ATOM	6192	OD1	ASN	E	236	9.414	30.477	34.971	1.00	35.74	E	O
	ATOM	6193	ND2	ASN	E	236	8.859	29.545	33.006	1.00	35.41	E	N
	ATOM	6194	C	ASN	E	236	7.350	31.374	36.671	1.00	29.53	E	C
	ATOM	6195	O	ASN	E	236	7.583	32.531	36.296	1.00	28.64	E	O
	ATOM	6196	N	MET	E	237	7.694	30.909	37.872	1.00	28.98	E	N
20	ATOM	6197	CA	MET	E	237	8.331	31.764	38.861	1.00	28.29	E	C
	ATOM	6198	CB	MET	E	237	8.493	31.029	40.188	1.00	31.35	E	C
	ATOM	6199	CG	MET	E	237	8.648	31.982	41.362	1.00	34.75	E	C
	ATOM	6200	SD	MET	E	237	8.846	31.142	42.927	1.00	40.08	E	S
	ATOM	6201	CE	MET	E	237	10.606	30.698	42.858	1.00	40.46	E	C
25	ATOM	6202	C	MET	E	237	9.662	32.371	38.472	1.00	28.04	E	C
	ATOM	6203	O	MET	E	237	9.922	33.528	38.793	1.00	29.77	E	O
	ATOM	6204	N	GLU	E	238	10.514	31.615	37.795	1.00	28.73	E	N
	ATOM	6205	CA	GLU	E	238	11.802	32.168	37.404	1.00	30.53	E	C
	ATOM	6206	CB	GLU	E	238	12.669	31.116	36.716	1.00	33.59	E	C
30	ATOM	6207	CG	GLU	E	238	14.124	31.552	36.583	1.00	44.61	E	C
	ATOM	6208	CD	GLU	E	238	14.957	30.625	35.707	1.00	51.07	E	C
	ATOM	6209	OE1	GLU	E	238	15.912	31.118	35.058	1.00	53.40	E	O
	ATOM	6210	OE2	GLU	E	238	14.661	29.408	35.672	1.00	54.34	E	O
	ATOM	6211	C	GLU	E	238	11.572	33.339	36.461	1.00	30.36	E	C
35	ATOM	6212	O	GLU	E	238	12.204	34.390	36.587	1.00	31.66	E	O
	ATOM	6213	N	GLU	E	239	10.656	33.152	35.520	1.00	26.71	E	N
	ATOM	6214	CA	GLU	E	239	10.327	34.182	34.557	1.00	25.66	E	C
	ATOM	6215	CB	GLU	E	239	9.306	33.635	33.562	1.00	30.59	E	C
	ATOM	6216	CG	GLU	E	239	8.863	34.621	32.494	1.00	33.44	E	C
40	ATOM	6217	CD	GLU	E	239	7.743	34.067	31.630	1.00	36.28	E	C
	ATOM	6218	OE1	GLU	E	239	6.984	34.872	31.048	1.00	38.74	E	O
	ATOM	6219	OE2	GLU	E	239	7.620	32.827	31.533	1.00	37.63	E	O
	ATOM	6220	C	GLU	E	239	9.752	35.389	35.287	1.00	25.64	E	C
	ATOM	6221	O	GLU	E	239	10.093	36.532	34.985	1.00	27.28	E	O
45	ATOM	6222	N	PHE	E	240	8.881	35.131	36.257	1.00	24.54	E	N
	ATOM	6223	CA	PHE	E	240	8.258	36.200	37.029	1.00	20.95	E	C
	ATOM	6224	CB	PHE	E	240	7.256	35.620	38.020	1.00	18.72	E	C
	ATOM	6225	CG	PHE	E	240	6.568	36.661	38.851	1.00	19.51	E	C
	ATOM	6226	CD1	PHE	E	240	7.220	37.257	39.924	1.00	18.90	E	C
50	ATOM	6227	CD2	PHE	E	240	5.268	37.053	38.558	1.00	18.33	E	C
	ATOM	6228	CE1	PHE	E	240	6.585	38.227	40.692	1.00	18.85	E	C
	ATOM	6229	CE2	PHE	E	240	4.628	38.020	39.317	1.00	19.49	E	C
	ATOM	6230	CZ	PHE	E	240	5.288	38.608	40.387	1.00	18.89	E	C
	ATOM	6231	C	PHE	E	240	9.276	37.036	37.793	1.00	20.37	E	C
55	ATOM	6232	O	PHE	E	240	9.217	38.262	37.778	1.00	19.79	E	O
	ATOM	6233	N	LEU	E	241	10.192	36.366	38.483	1.00	20.19	E	N
	ATOM	6234	CA	LEU	E	241	11.217	37.060	39.247	1.00	21.54	E	C
	ATOM	6235	CB	LEU	E	241	12.040	36.056	40.051	1.00	21.91	E	C
	ATOM	6236	CG	LEU	E	241	11.281	35.365	41.192	1.00	24.85	E	C
60	ATOM	6237	CD1	LEU	E	241	12.083	34.178	41.708	1.00	23.63	E	C
	ATOM	6238	CD2	LEU	E	241	11.018	36.363	42.311	1.00	22.68	E	C
	ATOM	6239	C	LEU	E	241	12.125	37.869	38.329	1.00	23.96	E	C
	ATOM	6240	O	LEU	E	241	12.684	38.890	38.736	1.00	23.37	E	O
	ATOM	6241	N	ASP	E	242	12.263	37.425	37.084	1.00	25.29	E	N
65	ATOM	6242	CA	ASP	E	242	13.107	38.134	36.127	1.00	26.04	E	C
	ATOM	6243	CB	ASP	E	242	13.325	37.286	34.871	1.00	31.29	E	C
	ATOM	6244	CG	ASP	E	242	14.286	36.131	35.106	1.00	38.68	E	C
	ATOM	6245	OD1	ASP	E	242	14.816	36.010	36.237	1.00	42.05	E	O
	ATOM	6246	OD2	ASP	E	242	14.509	35.342	34.158	1.00	40.91	E	O

	ATOM	6247	C	ASP	E	242	12.459	39.450	35.737	1.00	23.50	E	C
	ATOM	6248	O	ASP	E	242	13.112	40.493	35.702	1.00	21.12	E	O
	ATOM	6249	N	ASP	E	243	11.168	39.389	35.436	1.00	23.14	E	N
	ATOM	6250	CA	ASP	E	243	10.422	40.573	35.039	1.00	22.64	E	C
5	ATOM	6251	CB	ASP	E	243	9.007	40.190	34.586	1.00	21.75	E	C
	ATOM	6252	CG	ASP	E	243	8.995	39.460	33.249	1.00	20.82	E	C
	ATOM	6253	OD1	ASP	E	243	9.959	39.636	32.472	1.00	19.79	E	O
	ATOM	6254	OD2	ASP	E	243	8.025	38.715	32.980	1.00	17.15	E	O
	ATOM	6255	C	ASP	E	243	10.339	41.536	36.210	1.00	23.12	E	C
10	ATOM	6256	O	ASP	E	243	10.421	42.752	36.034	1.00	24.00	E	O
	ATOM	6257	N	MET	E	244	10.185	40.983	37.409	1.00	22.53	E	N
	ATOM	6258	CA	MET	E	244	10.079	41.791	38.615	1.00	21.06	E	C
	ATOM	6259	CB	MET	E	244	9.741	40.918	39.816	1.00	20.61	E	C
	ATOM	6260	CG	MET	E	244	9.808	41.665	41.127	1.00	20.57	E	C
15	ATOM	6261	SD	MET	E	244	9.588	40.580	42.543	1.00	25.55	E	S
	ATOM	6262	CE	MET	E	244	11.253	39.934	42.729	1.00	19.95	E	C
	ATOM	6263	C	MET	E	244	11.358	42.546	38.905	1.00	21.41	E	C
	ATOM	6264	O	MET	E	244	11.320	43.725	39.252	1.00	21.86	E	O
	ATOM	6265	N	ASN	E	245	12.488	41.858	38.777	1.00	20.13	E	N
20	ATOM	6266	CA	ASN	E	245	13.783	42.474	39.030	1.00	21.24	E	C
	ATOM	6267	CB	ASN	E	245	14.874	41.414	38.968	1.00	21.30	E	C
	ATOM	6268	CG	ASN	E	245	14.841	40.499	40.165	1.00	27.43	E	C
	ATOM	6269	OD1	ASN	E	245	14.751	40.962	41.304	1.00	28.60	E	O
	ATOM	6270	ND2	ASN	E	245	14.904	39.193	39.922	1.00	30.43	E	N
25	ATOM	6271	C	ASN	E	245	14.069	43.585	38.033	1.00	20.60	E	C
	ATOM	6272	O	ASN	E	245	14.799	44.530	38.330	1.00	20.97	E	O
	ATOM	6273	N	PHE	E	246	13.480	43.461	36.849	1.00	21.91	E	N
	ATOM	6274	CA	PHE	E	246	13.650	44.453	35.800	1.00	21.59	E	C
	ATOM	6275	CB	PHE	E	246	13.095	43.940	34.471	1.00	20.53	E	C
30	ATOM	6276	CG	PHE	E	246	12.782	45.036	33.504	1.00	22.35	E	C
	ATOM	6277	CD1	PHE	E	246	11.479	45.480	33.335	1.00	21.94	E	C
	ATOM	6278	CD2	PHE	E	246	13.800	45.660	32.788	1.00	23.76	E	C
	ATOM	6279	CE1	PHE	E	246	11.195	46.525	32.477	1.00	17.91	E	C
	ATOM	6280	CE2	PHE	E	246	13.520	46.709	31.924	1.00	20.98	E	C
35	ATOM	6281	CZ	PHE	E	246	12.215	47.140	31.771	1.00	17.51	E	C
	ATOM	6282	C	PHE	E	246	12.889	45.705	36.200	1.00	20.76	E	C
	ATOM	6283	O	PHE	E	246	13.410	46.814	36.120	1.00	25.08	E	O
	ATOM	6284	N	LEU	E	247	11.644	45.523	36.621	1.00	18.45	E	N
	ATOM	6285	CA	LEU	E	247	10.817	46.645	37.031	1.00	19.27	E	C
40	ATOM	6286	CB	LEU	E	247	9.398	46.162	37.348	1.00	17.83	E	C
	ATOM	6287	CG	LEU	E	247	8.565	45.734	36.134	1.00	15.69	E	C
	ATOM	6288	CD1	LEU	E	247	7.188	45.263	36.582	1.00	12.27	E	C
	ATOM	6289	CD2	LEU	E	247	8.447	46.906	35.176	1.00	11.80	E	C
	ATOM	6290	C	LEU	E	247	11.431	47.327	38.252	1.00	20.47	E	C
45	ATOM	6291	O	LEU	E	247	11.405	48.550	38.366	1.00	21.43	E	O
	ATOM	6292	N	LEU	E	248	11.993	46.534	39.157	1.00	21.98	E	N
	ATOM	6293	CA	LEU	E	248	12.615	47.081	40.352	1.00	22.41	E	C
	ATOM	6294	CB	LEU	E	248	13.149	45.960	41.240	1.00	25.03	E	C
	ATOM	6295	CG	LEU	E	248	12.573	45.827	42.653	1.00	25.37	E	C
50	ATOM	6296	CD1	LEU	E	248	11.137	46.343	42.701	1.00	25.73	E	C
	ATOM	6297	CD2	LEU	E	248	12.621	44.362	43.071	1.00	25.95	E	C
	ATOM	6298	C	LEU	E	248	13.757	48.001	39.961	1.00	21.83	E	C
	ATOM	6299	O	LEU	E	248	13.914	49.084	40.524	1.00	25.26	E	O
	ATOM	6300	N	ALA	E	249	14.557	47.571	38.992	1.00	21.36	E	N
55	ATOM	6301	CA	ALA	E	249	15.688	48.375	38.537	1.00	20.94	E	C
	ATOM	6302	CB	ALA	E	249	16.549	47.558	37.583	1.00	14.17	E	C
	ATOM	6303	C	ALA	E	249	15.188	49.646	37.848	1.00	20.45	E	C
	ATOM	6304	O	ALA	E	249	15.682	50.751	38.088	1.00	17.49	E	O
	ATOM	6305	N	LEU	E	250	14.181	49.470	37.003	1.00	22.23	E	N
60	ATOM	6306	CA	LEU	E	250	13.598	50.567	36.256	1.00	21.12	E	C
	ATOM	6307	CB	LEU	E	250	12.455	50.042	35.393	1.00	19.91	E	C
	ATOM	6308	CG	LEU	E	250	11.926	51.016	34.344	1.00	17.89	E	C
	ATOM	6309	CD1	LEU	E	250	12.938	51.185	33.227	1.00	14.45	E	C
	ATOM	6310	CD2	LEU	E	250	10.600	50.490	33.810	1.00	16.41	E	C
65	ATOM	6311	C	LEU	E	250	13.101	51.721	37.115	1.00	20.34	E	C
	ATOM	6312	O	LEU	E	250	13.595	52.834	36.994	1.00	20.39	E	O
	ATOM	6313	N	ILE	E	251	12.129	51.464	37.984	1.00	21.40	E	N
	ATOM	6314	CA	ILE	E	251	11.580	52.533	38.819	1.00	24.31	E	C

	ATOM	6315	CB	ILE	E	251	10.479	52.008	39.785	1.00	22.70	E	C
	ATOM	6316	CG2	ILE	E	251	9.492	51.123	39.022	1.00	20.06	E	C
	ATOM	6317	CG1	ILE	E	251	11.117	51.241	40.943	1.00	24.41	E	C
	ATOM	6318	CD1	ILE	E	251	10.140	50.392	41.733	1.00	24.60	E	C
5	ATOM	6319	C	ILE	E	251	12.623	53.293	39.634	1.00	24.67	E	C
	ATOM	6320	O	ILE	E	251	12.335	54.369	40.165	1.00	24.58	E	O
	ATOM	6321	N	ALA	E	252	13.831	52.747	39.728	1.00	24.94	E	N
	ATOM	6322	CA	ALA	E	252	14.888	53.409	40.484	1.00	25.31	E	C
	ATOM	6323	CB	ALA	E	252	15.535	52.428	41.446	1.00	25.64	E	C
10	ATOM	6324	C	ALA	E	252	15.951	54.033	39.584	1.00	27.01	E	C
	ATOM	6325	O	ALA	E	252	16.943	54.568	40.079	1.00	28.62	E	O
	ATOM	6326	N	GLN	E	253	15.738	53.971	38.270	1.00	27.47	E	N
	ATOM	6327	CA	GLN	E	253	16.675	54.532	37.302	1.00	25.25	E	C
	ATOM	6328	CB	GLN	E	253	16.438	53.918	35.932	1.00	28.00	E	C
15	ATOM	6329	CG	GLN	E	253	17.633	53.198	35.374	1.00	32.24	E	C
	ATOM	6330	CD	GLN	E	253	17.245	52.253	34.267	1.00	36.43	E	C
	ATOM	6331	OE1	GLN	E	253	17.317	51.036	34.423	1.00	39.75	E	O
	ATOM	6332	NE2	GLN	E	253	16.822	52.806	33.136	1.00	40.84	E	N
	ATOM	6333	C	GLN	E	253	16.527	56.043	37.204	1.00	24.38	E	C
20	ATOM	6334	O	GLN	E	253	15.448	56.553	36.909	1.00	25.23	E	O
	ATOM	6335	N	GLY	E	254	17.626	56.751	37.437	1.00	24.11	E	N
	ATOM	6336	CA	GLY	E	254	17.617	58.201	37.395	1.00	19.16	E	C
	ATOM	6337	C	GLY	E	254	16.919	58.827	36.208	1.00	20.83	E	C
	ATOM	6338	O	GLY	E	254	15.950	59.560	36.385	1.00	21.15	E	O
25	ATOM	6339	N	PRO	E	255	17.391	58.565	34.979	1.00	19.84	E	N
	ATOM	6340	CD	PRO	E	255	18.553	57.718	34.668	1.00	15.11	E	C
	ATOM	6341	CA	PRO	E	255	16.792	59.123	33.760	1.00	17.40	E	C
	ATOM	6342	CB	PRO	E	255	17.630	58.512	32.640	1.00	15.74	E	C
	ATOM	6343	CG	PRO	E	255	18.914	58.155	33.292	1.00	11.88	E	C
30	ATOM	6344	C	PRO	E	255	15.302	58.846	33.586	1.00	18.22	E	C
	ATOM	6345	O	PRO	E	255	14.554	59.720	33.163	1.00	20.94	E	O
	ATOM	6346	N	VAL	E	256	14.865	57.633	33.901	1.00	17.63	E	N
	ATOM	6347	CA	VAL	E	256	13.451	57.288	33.767	1.00	17.06	E	C
	ATOM	6348	CB	VAL	E	256	13.217	55.777	33.976	1.00	14.36	E	C
35	ATOM	6349	CG1	VAL	E	256	11.758	55.444	33.749	1.00	7.21	E	C
	ATOM	6350	CG2	VAL	E	256	14.095	54.980	33.021	1.00	12.09	E	C
	ATOM	6351	C	VAL	E	256	12.618	58.058	34.786	1.00	20.56	E	C
	ATOM	6352	O	VAL	E	256	11.471	58.433	34.516	1.00	21.69	E	O
	ATOM	6353	N	LYS	E	257	13.198	58.284	35.964	1.00	21.38	E	N
40	ATOM	6354	CA	LYS	E	257	12.521	59.015	37.031	1.00	19.87	E	C
	ATOM	6355	CB	LYS	E	257	13.383	59.028	38.293	1.00	22.89	E	C
	ATOM	6356	CG	LYS	E	257	12.856	58.167	39.430	1.00	23.73	E	C
	ATOM	6357	CD	LYS	E	257	13.972	57.378	40.085	1.00	26.19	E	C
	ATOM	6358	CE	LYS	E	257	14.557	58.126	41.272	1.00	30.24	E	C
45	ATOM	6359	NZ	LYS	E	257	16.060	58.136	41.267	1.00	31.39	E	N
	ATOM	6360	C	LYS	E	257	12.289	60.439	36.572	1.00	18.56	E	C
	ATOM	6361	O	LYS	E	257	11.209	60.997	36.756	1.00	19.92	E	O
	ATOM	6362	N	THR	E	258	13.314	61.023	35.964	1.00	18.68	E	N
	ATOM	6363	CA	THR	E	258	13.236	62.391	35.473	1.00	19.30	E	C
50	ATOM	6364	CB	THR	E	258	14.612	62.877	35.005	1.00	21.16	E	C
	ATOM	6365	OG1	THR	E	258	15.540	62.779	36.095	1.00	25.52	E	O
	ATOM	6366	CG2	THR	E	258	14.534	64.328	34.548	1.00	22.43	E	C
	ATOM	6367	C	THR	E	258	12.236	62.561	34.335	1.00	16.39	E	C
	ATOM	6368	O	THR	E	258	11.390	63.452	34.375	1.00	16.92	E	O
55	ATOM	6369	N	TYR	E	259	12.328	61.707	33.322	1.00	14.65	E	N
	ATOM	6370	CA	TYR	E	259	11.414	61.788	32.188	1.00	12.76	E	C
	ATOM	6371	CB	TYR	E	259	11.728	60.685	31.168	1.00	13.03	E	C
	ATOM	6372	CG	TYR	E	259	10.773	60.662	29.991	1.00	16.89	E	C
	ATOM	6373	CD1	TYR	E	259	9.741	59.731	29.926	1.00	15.64	E	C
60	ATOM	6374	CE1	TYR	E	259	8.858	59.714	28.863	1.00	16.15	E	C
	ATOM	6375	CD2	TYR	E	259	10.891	61.583	28.948	1.00	16.15	E	C
	ATOM	6376	CE2	TYR	E	259	10.010	61.571	27.881	1.00	14.47	E	C
	ATOM	6377	CZ	TYR	E	259	8.996	60.632	27.847	1.00	16.35	E	C
	ATOM	6378	OH	TYR	E	259	8.111	60.598	26.794	1.00	21.53	E	O
65	ATOM	6379	C	TYR	E	259	9.962	61.674	32.645	1.00	12.58	E	C
	ATOM	6380	O	TYR	E	259	9.149	62.558	32.376	1.00	8.10	E	O
	ATOM	6381	N	THR	E	260	9.641	60.586	33.342	1.00	13.75	E	N
	ATOM	6382	CA	THR	E	260	8.275	60.361	33.819	1.00	13.85	E	C

	ATOM	6383	CB	THR	E	260	8.157	59.009	34.568	1.00	15.40	E	C
	ATOM	6384	OG1	THR	E	260	9.043	58.989	35.693	1.00	15.91	E	O
	ATOM	6385	CG2	THR	E	260	8.524	57.859	33.637	1.00	11.98	E	C
	ATOM	6386	C	THR	E	260	7.791	61.499	34.720	1.00	15.28	E	C
5	ATOM	6387	O	THR	E	260	6.617	61.870	34.690	1.00	12.35	E	O
	ATOM	6388	N	HIS	E	261	8.700	62.067	35.508	1.00	17.09	E	N
	ATOM	6389	CA	HIS	E	261	8.350	63.174	36.391	1.00	16.54	E	C
	ATOM	6390	CB	HIS	E	261	9.542	63.545	37.276	1.00	19.77	E	C
10	ATOM	6391	CG	HIS	E	261	9.245	64.632	38.262	1.00	21.04	E	C
	ATOM	6392	CD2	HIS	E	261	8.340	64.701	39.264	1.00	20.47	E	C
	ATOM	6393	ND1	HIS	E	261	9.916	65.837	38.266	1.00	21.17	E	N
	ATOM	6394	CE1	HIS	E	261	9.435	66.601	39.229	1.00	20.01	E	C
	ATOM	6395	NE2	HIS	E	261	8.478	65.935	39.850	1.00	19.98	E	N
	ATOM	6396	C	HIS	E	261	7.939	64.380	35.557	1.00	14.99	E	C
15	ATOM	6397	O	HIS	E	261	6.978	65.071	35.882	1.00	17.01	E	O
	ATOM	6398	N	ARG	E	262	8.673	64.627	34.478	1.00	16.27	E	N
	ATOM	6399	CA	ARG	E	262	8.386	65.748	33.582	1.00	16.84	E	C
	ATOM	6400	CB	ARG	E	262	9.528	65.912	32.574	1.00	18.66	E	C
	ATOM	6401	CG	ARG	E	262	9.856	67.354	32.245	1.00	27.86	E	C
20	ATOM	6402	CD	ARG	E	262	10.887	67.454	31.133	1.00	32.12	E	C
	ATOM	6403	NE	ARG	E	262	12.129	66.776	31.483	1.00	38.52	E	N
	ATOM	6404	CZ	ARG	E	262	12.736	65.882	30.707	1.00	41.20	E	C
	ATOM	6405	NH1	ARG	E	262	12.210	65.560	29.528	1.00	39.55	E	N
	ATOM	6406	NH2	ARG	E	262	13.868	65.311	31.107	1.00	39.39	E	N
25	ATOM	6407	C	ARG	E	262	7.055	65.580	32.837	1.00	13.55	E	C
	ATOM	6408	O	ARG	E	262	6.301	66.546	32.662	1.00	9.65	E	O
	ATOM	6409	N	ARG	E	263	6.765	64.356	32.400	1.00	11.40	E	N
	ATOM	6410	CA	ARG	E	263	5.524	64.081	31.686	1.00	8.82	E	C
	ATOM	6411	CB	ARG	E	263	5.553	62.668	31.112	1.00	8.22	E	C
30	ATOM	6412	CG	ARG	E	263	6.733	62.372	30.190	1.00	8.44	E	C
	ATOM	6413	CD	ARG	E	263	6.866	63.405	29.071	1.00	5.96	E	C
	ATOM	6414	NE	ARG	E	263	5.577	63.752	28.489	1.00	7.15	E	N
	ATOM	6415	CZ	ARG	E	263	5.330	64.890	27.847	1.00	8.59	E	C
	ATOM	6416	NH1	ARG	E	263	6.291	65.792	27.704	1.00	4.36	E	N
35	ATOM	6417	NH2	ARG	E	263	4.118	65.131	27.356	1.00	6.57	E	N
	ATOM	6418	C	ARG	E	263	4.314	64.252	32.605	1.00	11.58	E	C
	ATOM	6419	O	ARG	E	263	3.269	64.761	32.189	1.00	15.28	E	O
	ATOM	6420	N	LEU	E	264	4.461	63.829	33.859	1.00	12.73	E	N
	ATOM	6421	CA	LEU	E	264	3.389	63.947	34.850	1.00	10.68	E	C
40	ATOM	6422	CB	LEU	E	264	3.780	63.216	36.134	1.00	7.40	E	C
	ATOM	6423	CG	LEU	E	264	3.737	61.687	36.044	1.00	7.91	E	C
	ATOM	6424	CD1	LEU	E	264	4.544	61.070	37.193	1.00	5.96	E	C
	ATOM	6425	CD2	LEU	E	264	2.285	61.221	36.077	1.00	3.15	E	C
	ATOM	6426	C	LEU	E	264	3.107	65.418	35.150	1.00	10.46	E	C
45	ATOM	6427	O	LEU	E	264	1.965	65.819	35.351	1.00	8.66	E	O
	ATOM	6428	N	LYS	E	265	4.156	66.226	35.178	1.00	12.72	E	N
	ATOM	6429	CA	LYS	E	265	3.998	67.655	35.427	1.00	12.77	E	C
	ATOM	6430	CB	LYS	E	265	5.359	68.335	35.568	1.00	14.35	E	C
	ATOM	6431	CG	LYS	E	265	5.849	68.474	37.003	1.00	18.84	E	C
50	ATOM	6432	CD	LYS	E	265	7.372	68.500	37.073	1.00	24.44	E	C
	ATOM	6433	CE	LYS	E	265	7.929	69.902	36.867	1.00	26.93	E	C
	ATOM	6434	NZ	LYS	E	265	9.135	69.901	35.983	1.00	33.01	E	N
	ATOM	6435	C	LYS	E	265	3.266	68.244	34.236	1.00	13.38	E	C
	ATOM	6436	O	LYS	E	265	2.435	69.136	34.385	1.00	18.89	E	O
55	ATOM	6437	N	PHE	E	266	3.568	67.736	33.046	1.00	14.21	E	N
	ATOM	6438	CA	PHE	E	266	2.915	68.235	31.843	1.00	12.13	E	C
	ATOM	6439	CB	PHE	E	266	3.577	67.677	30.577	1.00	11.73	E	C
	ATOM	6440	CG	PHE	E	266	2.879	68.093	29.312	1.00	12.04	E	C
	ATOM	6441	CD1	PHE	E	266	3.134	69.338	28.740	1.00	12.38	E	C
60	ATOM	6442	CD2	PHE	E	266	1.917	67.273	28.727	1.00	10.07	E	C
	ATOM	6443	CE1	PHE	E	266	2.435	69.764	27.604	1.00	14.33	E	C
	ATOM	6444	CE2	PHE	E	266	1.214	67.691	27.591	1.00	12.10	E	C
	ATOM	6445	CZ	PHE	E	266	1.469	68.937	27.029	1.00	9.71	E	C
	ATOM	6446	C	PHE	E	266	1.446	67.855	31.849	1.00	10.88	E	C
65	ATOM	6447	O	PHE	E	266	0.578	68.674	31.524	1.00	10.31	E	O
	ATOM	6448	N	LEU	E	267	1.166	66.605	32.203	1.00	9.33	E	N
	ATOM	6449	CA	LEU	E	267	-0.216	66.136	32.259	1.00	9.74	E	C
	ATOM	6450	CB	LEU	E	267	-0.253	64.698	32.779	1.00	11.47	E	C

	ATOM	6451	CG	LEU	E	267	-0.492	63.532	31.805	1.00	15.22	E	C
	ATOM	6452	CD1	LEU	E	267	-0.289	63.964	30.370	1.00	13.95	E	C
	ATOM	6453	CD2	LEU	E	267	0.451	62.400	32.143	1.00	13.97	E	C
5	ATOM	6454	C	LEU	E	267	-1.024	67.047	33.183	1.00	9.87	E	C
	ATOM	6455	O	LEU	E	267	-2.172	67.382	32.905	1.00	10.08	E	O
	ATOM	6456	N	SER	E	268	-0.401	67.449	34.285	1.00	10.49	E	N
	ATOM	6457	CA	SER	E	268	-1.026	68.319	35.273	1.00	8.66	E	C
	ATOM	6458	CB	SER	E	268	-0.109	68.450	36.492	1.00	10.03	E	C
10	ATOM	6459	OG	SER	E	268	-0.714	69.224	37.514	1.00	11.55	E	O
	ATOM	6460	C	SER	E	268	-1.319	69.703	34.711	1.00	9.07	E	C
	ATOM	6461	O	SER	E	268	-2.465	70.147	34.718	1.00	11.84	E	O
	ATOM	6462	N	SER	E	269	-0.283	70.390	34.235	1.00	8.55	E	N
	ATOM	6463	CA	SER	E	269	-0.451	71.729	33.670	1.00	9.03	E	C
	ATOM	6464	CB	SER	E	269	0.900	72.294	33.237	1.00	10.20	E	C
15	ATOM	6465	OG	SER	E	269	1.725	72.584	34.349	1.00	10.55	E	O
	ATOM	6466	C	SER	E	269	-1.404	71.739	32.471	1.00	11.09	E	C
	ATOM	6467	O	SER	E	269	-2.196	72.676	32.310	1.00	10.29	E	O
	ATOM	6468	N	LYS	E	270	-1.328	70.710	31.625	1.00	7.66	E	N
	ATOM	6469	CA	LYS	E	270	-2.210	70.643	30.466	1.00	11.31	E	C
20	ATOM	6470	CB	LYS	E	270	-1.947	69.374	29.648	1.00	9.42	E	C
	ATOM	6471	CG	LYS	E	270	-2.309	69.546	28.174	1.00	12.19	E	C
	ATOM	6472	CD	LYS	E	270	-2.509	68.221	27.449	1.00	12.22	E	C
	ATOM	6473	CE	LYS	E	270	-3.255	68.430	26.121	1.00	13.21	E	C
	ATOM	6474	NZ	LYS	E	270	-3.458	67.152	25.356	1.00	9.62	E	N
25	ATOM	6475	C	LYS	E	270	-3.688	70.697	30.861	1.00	11.08	E	C
	ATOM	6476	O	LYS	E	270	-4.465	71.427	30.252	1.00	10.91	E	O
	ATOM	6477	N	PHE	E	271	-4.076	69.925	31.875	1.00	12.28	E	N
	ATOM	6478	CA	PHE	E	271	-5.465	69.911	32.324	1.00	12.75	E	C
	ATOM	6479	CB	PHE	E	271	-5.665	68.866	33.420	1.00	12.06	E	C
30	ATOM	6480	CG	PHE	E	271	-7.097	68.705	33.846	1.00	11.64	E	C
	ATOM	6481	CD1	PHE	E	271	-7.975	67.924	33.097	1.00	10.40	E	C
	ATOM	6482	CD2	PHE	E	271	-7.574	69.338	34.995	1.00	10.09	E	C
	ATOM	6483	CE1	PHE	E	271	-9.315	67.773	33.488	1.00	13.00	E	C
	ATOM	6484	CE2	PHE	E	271	-8.911	69.193	35.392	1.00	9.58	E	C
35	ATOM	6485	CZ	PHE	E	271	-9.784	68.410	34.638	1.00	6.87	E	C
	ATOM	6486	C	PHE	E	271	-5.883	71.281	32.848	1.00	16.47	E	C
	ATOM	6487	O	PHE	E	271	-7.002	71.738	32.614	1.00	19.53	E	O
	ATOM	6488	N	GLN	E	272	-4.984	71.941	33.561	1.00	16.00	E	N
	ATOM	6489	CA	GLN	E	272	-5.282	73.257	34.103	1.00	17.36	E	C
40	ATOM	6490	CB	GLN	E	272	-4.080	73.789	34.877	1.00	20.93	E	C
	ATOM	6491	CG	GLN	E	272	-4.336	73.901	36.361	1.00	29.50	E	C
	ATOM	6492	CD	GLN	E	272	-3.499	72.931	37.169	1.00	34.83	E	C
	ATOM	6493	OE1	GLN	E	272	-2.367	73.241	37.556	1.00	38.09	E	O
	ATOM	6494	NE2	GLN	E	272	-4.051	71.749	37.431	1.00	33.67	E	N
45	ATOM	6495	C	GLN	E	272	-5.653	74.232	33.000	1.00	14.80	E	C
	ATOM	6496	O	GLN	E	272	-6.592	75.019	33.141	1.00	13.91	E	O
	ATOM	6497	N	VAL	E	273	-4.910	74.186	31.901	1.00	11.99	E	N
	ATOM	6498	CA	VAL	E	273	-5.185	75.067	30.777	1.00	10.54	E	C
	ATOM	6499	CB	VAL	E	273	-4.015	75.072	29.771	1.00	10.76	E	C
50	ATOM	6500	CG1	VAL	E	273	-4.368	75.925	28.569	1.00	9.98	E	C
	ATOM	6501	CG2	VAL	E	273	-2.761	75.608	30.442	1.00	6.95	E	C
	ATOM	6502	C	VAL	E	273	-6.460	74.625	30.067	1.00	10.03	E	C
	ATOM	6503	O	VAL	E	273	-7.262	75.455	29.636	1.00	12.82	E	O
	ATOM	6504	N	HIS	E	274	-6.651	73.318	29.944	1.00	9.16	E	N
55	ATOM	6505	CA	HIS	E	274	-7.847	72.802	29.289	1.00	12.00	E	C
	ATOM	6506	CB	HIS	E	274	-7.819	71.271	29.245	1.00	11.48	E	C
	ATOM	6507	CG	HIS	E	274	-9.145	70.647	28.919	1.00	11.33	E	C
	ATOM	6508	CD2	HIS	E	274	-9.958	69.845	29.647	1.00	12.24	E	C
	ATOM	6509	ND1	HIS	E	274	-9.767	70.811	27.702	1.00	14.01	E	N
60	ATOM	6510	CE1	HIS	E	274	-10.904	70.138	27.691	1.00	11.13	E	C
	ATOM	6511	NE2	HIS	E	274	-11.043	69.543	28.862	1.00	11.49	E	N
	ATOM	6512	C	HIS	E	274	-9.092	73.266	30.033	1.00	14.09	E	C
	ATOM	6513	O	HIS	E	274	-10.028	73.793	29.431	1.00	13.41	E	O
	ATOM	6514	N	GLN	E	275	-9.095	73.073	31.349	1.00	17.95	E	N
65	ATOM	6515	CA	GLN	E	275	-10.236	73.463	32.171	1.00	22.04	E	C
	ATOM	6516	CB	GLN	E	275	-10.058	72.985	33.611	1.00	21.81	E	C
	ATOM	6517	CG	GLN	E	275	-11.225	72.152	34.106	1.00	35.58	E	C
	ATOM	6518	CD	GLN	E	275	-11.208	71.961	35.615	1.00	44.20	E	C

	ATOM	6519	OE1	GLN	E	275	-10.574	72.736	36.348	1.00	46.37	E	O
	ATOM	6520	NE2	GLN	E	275	-11.906	70.922	36.091	1.00	43.34	E	N
	ATOM	6521	C	GLN	E	275	-10.501	74.958	32.169	1.00	19.67	E	C
5	ATOM	6522	O	GLN	E	275	-11.650	75.388	32.128	1.00	17.43	E	O
	ATOM	6523	N	MET	E	276	-9.447	75.758	32.214	1.00	19.08	E	N
	ATOM	6524	CA	MET	E	276	-9.644	77.191	32.218	1.00	21.67	E	C
	ATOM	6525	CB	MET	E	276	-8.356	77.901	32.636	1.00	26.10	E	C
	ATOM	6526	CG	MET	E	276	-7.360	78.140	31.532	1.00	28.73	E	C
10	ATOM	6527	SD	MET	E	276	-5.917	79.025	32.178	1.00	36.97	E	S
	ATOM	6528	CE	MET	E	276	-5.185	77.783	33.253	1.00	32.16	E	C
	ATOM	6529	C	MET	E	276	-10.117	77.687	30.859	1.00	22.91	E	C
	ATOM	6530	O	MET	E	276	-10.807	78.702	30.764	1.00	26.76	E	O
	ATOM	6531	N	LEU	E	277	-9.770	76.963	29.803	1.00	21.48	E	N
15	ATOM	6532	CA	LEU	E	277	-10.176	77.361	28.462	1.00	17.47	E	C
	ATOM	6533	CB	LEU	E	277	-9.106	76.935	27.455	1.00	17.14	E	C
	ATOM	6534	CG	LEU	E	277	-8.152	77.944	26.803	1.00	13.95	E	C
	ATOM	6535	CD1	LEU	E	277	-7.893	79.151	27.690	1.00	13.02	E	C
	ATOM	6536	CD2	LEU	E	277	-6.868	77.222	26.511	1.00	12.95	E	C
20	ATOM	6537	C	LEU	E	277	-11.516	76.766	28.026	1.00	17.35	E	C
	ATOM	6538	O	LEU	E	277	-12.279	77.415	27.306	1.00	17.68	E	O
	ATOM	6539	N	ASN	E	278	-11.820	75.550	28.486	1.00	17.24	E	N
	ATOM	6540	CA	ASN	E	278	-13.033	74.857	28.050	1.00	14.20	E	C
	ATOM	6541	CB	ASN	E	278	-12.605	73.671	27.177	1.00	14.48	E	C
25	ATOM	6542	CG	ASN	E	278	-11.738	74.099	26.001	1.00	15.19	E	C
	ATOM	6543	OD1	ASN	E	278	-10.595	73.647	25.845	1.00	12.97	E	O
	ATOM	6544	ND2	ASN	E	278	-12.279	74.989	25.171	1.00	13.75	E	N
	ATOM	6545	C	ASN	E	278	-14.094	74.377	29.052	1.00	15.96	E	C
	ATOM	6546	O	ASN	E	278	-15.102	73.774	28.649	1.00	12.72	E	O
30	ATOM	6547	N	GLU	E	279	-13.905	74.644	30.340	1.00	18.09	E	N
	ATOM	6548	CA	GLU	E	279	-14.877	74.199	31.339	1.00	17.32	E	C
	ATOM	6549	CB	GLU	E	279	-14.451	74.654	32.734	1.00	15.19	E	C
	ATOM	6550	CG	GLU	E	279	-14.283	76.149	32.865	1.00	19.14	E	C
	ATOM	6551	CD	GLU	E	279	-13.974	76.567	34.277	1.00	24.14	E	C
35	ATOM	6552	OE1	GLU	E	279	-14.345	75.816	35.203	1.00	28.80	E	O
	ATOM	6553	OE2	GLU	E	279	-13.367	77.644	34.465	1.00	26.17	E	O
	ATOM	6554	C	GLU	E	279	-16.304	74.675	31.058	1.00	17.97	E	C
	ATOM	6555	O	GLU	E	279	-17.260	73.935	31.286	1.00	17.27	E	O
	ATOM	6556	N	MET	E	280	-16.453	75.903	30.568	1.00	19.39	E	N
40	ATOM	6557	CA	MET	E	280	-17.787	76.429	30.275	1.00	21.98	E	C
	ATOM	6558	CB	MET	E	280	-17.709	77.903	29.873	1.00	28.61	E	C
	ATOM	6559	CG	MET	E	280	-17.672	78.900	31.036	1.00	37.21	E	C
	ATOM	6560	SD	MET	E	280	-18.396	78.272	32.591	1.00	53.17	E	S
	ATOM	6561	CE	MET	E	280	-19.944	79.206	32.645	1.00	46.38	E	C
45	ATOM	6562	C	MET	E	280	-18.401	75.623	29.138	1.00	19.70	E	C
	ATOM	6563	O	MET	E	280	-19.607	75.383	29.096	1.00	18.51	E	O
	ATOM	6564	N	ASP	E	281	-17.544	75.195	28.223	1.00	19.62	E	N
	ATOM	6565	CA	ASP	E	281	-17.962	74.410	27.070	1.00	19.33	E	C
	ATOM	6566	CB	ASP	E	281	-16.824	74.366	26.051	1.00	21.49	E	C
50	ATOM	6567	CG	ASP	E	281	-16.588	75.718	25.412	1.00	26.09	E	C
	ATOM	6568	OD1	ASP	E	281	-15.461	76.262	25.517	1.00	28.17	E	O
	ATOM	6569	OD2	ASP	E	281	-17.556	76.242	24.813	1.00	29.09	E	O
	ATOM	6570	C	ASP	E	281	-18.390	73.007	27.468	1.00	17.78	E	C
	ATOM	6571	O	ASP	E	281	-19.338	72.456	26.902	1.00	16.93	E	O
55	ATOM	6572	N	GLU	E	282	-17.691	72.423	28.436	1.00	15.83	E	N
	ATOM	6573	CA	GLU	E	282	-18.056	71.094	28.913	1.00	13.98	E	C
	ATOM	6574	CB	GLU	E	282	-16.968	70.550	29.846	1.00	12.28	E	C
	ATOM	6575	CG	GLU	E	282	-15.695	70.173	29.114	1.00	7.97	E	C
	ATOM	6576	CD	GLU	E	282	-14.616	69.687	30.042	1.00	10.81	E	C
60	ATOM	6577	OE1	GLU	E	282	-14.538	70.199	31.175	1.00	11.36	E	O
	ATOM	6578	OE2	GLU	E	282	-13.839	68.791	29.645	1.00	12.47	E	O
	ATOM	6579	C	GLU	E	282	-19.408	71.179	29.641	1.00	12.51	E	C
	ATOM	6580	O	GLU	E	282	-20.269	70.309	29.476	1.00	13.25	E	O
	ATOM	6581	N	LEU	E	283	-19.603	72.239	30.421	1.00	9.01	E	N
65	ATOM	6582	CA	LEU	E	283	-20.855	72.439	31.149	1.00	11.59	E	C
	ATOM	6583	CB	LEU	E	283	-20.789	73.741	31.959	1.00	10.69	E	C
	ATOM	6584	CG	LEU	E	283	-21.405	73.822	33.359	1.00	10.22	E	C
	ATOM	6585	CD1	LEU	E	283	-21.905	75.233	33.610	1.00	6.43	E	C
	ATOM	6586	CD2	LEU	E	283	-22.529	72.817	33.510	1.00	5.33	E	C

	ATOM	6587	C	LEU	E	283	-22.036	72.505	30.175	1.00	15.45	E	C
	ATOM	6588	O	LEU	E	283	-23.095	71.891	30.405	1.00	17.32	E	O
	ATOM	6589	N	LYS	E	284	-21.852	73.268	29.098	1.00	14.57	E	N
	ATOM	6590	CA	LYS	E	284	-22.872	73.430	28.067	1.00	13.74	E	C
5	ATOM	6591	CB	LYS	E	284	-22.293	74.240	26.905	1.00	17.03	E	C
	ATOM	6592	CG	LYS	E	284	-23.302	74.686	25.861	1.00	22.67	E	C
	ATOM	6593	CD	LYS	E	284	-22.619	75.405	24.706	1.00	25.17	E	C
	ATOM	6594	CE	LYS	E	284	-23.619	75.848	23.646	1.00	28.10	E	C
	ATOM	6595	NZ	LYS	E	284	-23.108	76.999	22.841	1.00	33.22	E	N
10	ATOM	6596	C	LYS	E	284	-23.371	72.070	27.567	1.00	14.05	E	C
	ATOM	6597	O	LYS	E	284	-24.575	71.853	27.403	1.00	12.83	E	O
	ATOM	6598	N	GLU	E	285	-22.448	71.146	27.332	1.00	12.49	E	N
	ATOM	6599	CA	GLU	E	285	-22.834	69.821	26.862	1.00	14.89	E	C
	ATOM	6600	CB	GLU	E	285	-21.602	68.922	26.718	1.00	14.11	E	C
15	ATOM	6601	CG	GLU	E	285	-20.677	69.236	25.559	1.00	13.94	E	C
	ATOM	6602	CD	GLU	E	285	-19.816	68.035	25.178	1.00	16.27	E	C
	ATOM	6603	OE1	GLU	E	285	-20.380	67.016	24.712	1.00	18.86	E	O
	ATOM	6604	OE2	GLU	E	285	-18.581	68.100	25.349	1.00	15.14	E	O
	ATOM	6605	C	GLU	E	285	-23.799	69.173	27.860	1.00	16.85	E	C
20	ATOM	6606	O	GLU	E	285	-24.842	68.637	27.474	1.00	18.01	E	O
	ATOM	6607	N	LEU	E	286	-23.447	69.230	29.146	1.00	17.11	E	N
	ATOM	6608	CA	LEU	E	286	-24.261	68.620	30.195	1.00	15.86	E	C
	ATOM	6609	CB	LEU	E	286	-23.530	68.662	31.542	1.00	15.67	E	C
	ATOM	6610	CG	LEU	E	286	-22.107	68.103	31.719	1.00	17.26	E	C
25	ATOM	6611	CD1	LEU	E	286	-22.028	67.399	33.061	1.00	16.34	E	C
	ATOM	6612	CD2	LEU	E	286	-21.732	67.151	30.613	1.00	13.05	E	C
	ATOM	6613	C	LEU	E	286	-25.611	69.295	30.338	1.00	16.71	E	C
	ATOM	6614	O	LEU	E	286	-26.623	68.629	30.557	1.00	18.13	E	O
	ATOM	6615	N	LYS	E	287	-25.627	70.619	30.233	1.00	18.11	E	N
30	ATOM	6616	CA	LYS	E	287	-26.878	71.363	30.342	1.00	19.53	E	C
	ATOM	6617	CB	LYS	E	287	-26.605	72.865	30.324	1.00	18.96	E	C
	ATOM	6618	CG	LYS	E	287	-26.306	73.464	31.678	1.00	20.58	E	C
	ATOM	6619	CD	LYS	E	287	-25.360	74.641	31.540	1.00	23.21	E	C
	ATOM	6620	CE	LYS	E	287	-26.016	75.938	31.971	1.00	25.88	E	C
35	ATOM	6621	NZ	LYS	E	287	-25.004	77.016	32.170	1.00	29.13	E	N
	ATOM	6622	C	LYS	E	287	-27.825	71.008	29.196	1.00	20.58	E	C
	ATOM	6623	O	LYS	E	287	-29.038	70.966	29.377	1.00	21.88	E	O
	ATOM	6624	N	ASN	E	288	-27.270	70.753	28.015	1.00	21.62	E	N
	ATOM	6625	CA	ASN	E	288	-28.090	70.407	26.855	1.00	23.51	E	C
40	ATOM	6626	CB	ASN	E	288	-27.424	70.880	25.558	1.00	24.93	E	C
	ATOM	6627	CG	ASN	E	288	-27.371	72.394	25.444	1.00	24.17	E	C
	ATOM	6628	OD1	ASN	E	288	-28.315	73.092	25.808	1.00	20.53	E	O
	ATOM	6629	ND2	ASN	E	288	-26.258	72.905	24.936	1.00	26.77	E	N
	ATOM	6630	C	ASN	E	288	-28.368	68.914	26.762	1.00	23.02	E	C
45	ATOM	6631	O	ASN	E	288	-28.809	68.419	25.728	1.00	24.06	E	O
	ATOM	6632	N	ASN	E	289	-28.097	68.199	27.846	1.00	24.60	E	N
	ATOM	6633	CA	ASN	E	289	-28.348	66.763	27.913	1.00	24.79	E	C
	ATOM	6634	CB	ASN	E	289	-27.106	66.050	28.450	1.00	22.66	E	C
	ATOM	6635	CG	ASN	E	289	-27.238	64.546	28.428	1.00	20.20	E	C
50	ATOM	6636	OD1	ASN	E	289	-27.901	63.977	27.566	1.00	21.09	E	O
	ATOM	6637	ND2	ASN	E	289	-26.596	63.893	29.381	1.00	21.38	E	N
	ATOM	6638	C	ASN	E	289	-29.525	66.625	28.880	1.00	28.16	E	C
	ATOM	6639	O	ASN	E	289	-29.336	66.516	30.094	1.00	32.56	E	O
	ATOM	6640	N	PRO	E	290	-30.761	66.648	28.350	1.00	28.80	E	N
55	ATOM	6641	CD	PRO	E	290	-31.064	66.768	26.914	1.00	25.26	E	C
	ATOM	6642	CA	PRO	E	290	-31.986	66.539	29.154	1.00	29.87	E	C
	ATOM	6643	CB	PRO	E	290	-33.083	66.966	28.186	1.00	28.40	E	C
	ATOM	6644	CG	PRO	E	290	-32.551	66.576	26.858	1.00	27.94	E	C
	ATOM	6645	C	PRO	E	290	-32.255	65.164	29.738	1.00	31.96	E	C
60	ATOM	6646	O	PRO	E	290	-33.149	64.991	30.564	1.00	31.76	E	O
	ATOM	6647	N	HIS	E	291	-31.476	64.184	29.313	1.00	33.70	E	N
	ATOM	6648	CA	HIS	E	291	-31.663	62.829	29.804	1.00	37.84	E	C
	ATOM	6649	CB	HIS	E	291	-31.065	61.823	28.813	1.00	40.71	E	C
	ATOM	6650	CG	HIS	E	291	-31.541	62.005	27.405	1.00	48.17	E	C
65	ATOM	6651	CD2	HIS	E	291	-32.510	61.371	26.704	1.00	47.61	E	C
	ATOM	6652	ND1	HIS	E	291	-31.002	62.945	26.552	1.00	50.57	E	N
	ATOM	6653	CE1	HIS	E	291	-31.619	62.881	25.385	1.00	49.18	E	C
	ATOM	6654	NE2	HIS	E	291	-32.538	61.934	25.451	1.00	48.49	E	N

	ATOM	6655	C	HIS	E	291	-31.043	62.594	31.179	1.00	37.85	E	C
	ATOM	6656	O	HIS	E	291	-31.493	61.726	31.926	1.00	40.07	E	O
	ATOM	6657	N	ARG	E	292	-30.033	63.378	31.534	1.00	32.70	E	N
	ATOM	6658	CA	ARG	E	292	-29.363	63.137	32.791	1.00	26.91	E	C
5	ATOM	6659	CB	ARG	E	292	-28.304	62.062	32.556	1.00	24.65	E	C
	ATOM	6660	CG	ARG	E	292	-28.607	60.740	33.205	1.00	26.95	E	C
	ATOM	6661	CD	ARG	E	292	-28.060	59.604	32.396	1.00	23.84	E	C
	ATOM	6662	NE	ARG	E	292	-29.128	58.879	31.721	1.00	25.88	E	N
10	ATOM	6663	CZ	ARG	E	292	-29.962	58.041	32.323	1.00	23.00	E	C
	ATOM	6664	NH1	ARG	E	292	-29.865	57.810	33.622	1.00	28.74	E	N
	ATOM	6665	NH2	ARG	E	292	-30.889	57.419	31.619	1.00	26.47	E	N
	ATOM	6666	C	ARG	E	292	-28.695	64.308	33.494	1.00	26.37	E	C
	ATOM	6667	O	ARG	E	292	-28.451	65.379	32.906	1.00	26.39	E	O
15	ATOM	6668	N	ASP	E	293	-28.409	64.062	34.772	1.00	22.25	E	N
	ATOM	6669	CA	ASP	E	293	-27.680	64.973	35.650	1.00	21.24	E	C
	ATOM	6670	CB	ASP	E	293	-28.603	65.965	36.387	1.00	19.70	E	C
	ATOM	6671	CG	ASP	E	293	-29.610	65.294	37.293	1.00	23.74	E	C
	ATOM	6672	OD1	ASP	E	293	-30.707	65.878	37.461	1.00	24.26	E	O
20	ATOM	6673	OD2	ASP	E	293	-29.317	64.210	37.845	1.00	20.02	E	O
	ATOM	6674	C	ASP	E	293	-26.940	64.041	36.609	1.00	19.13	E	C
	ATOM	6675	O	ASP	E	293	-27.140	62.830	36.556	1.00	16.83	E	O
	ATOM	6676	N	PHE	E	294	-26.075	64.572	37.461	1.00	19.42	E	N
	ATOM	6677	CA	PHE	E	294	-25.327	63.707	38.366	1.00	20.28	E	C
25	ATOM	6678	CB	PHE	E	294	-24.487	64.540	39.343	1.00	20.35	E	C
	ATOM	6679	CG	PHE	E	294	-23.724	63.706	40.346	1.00	20.75	E	C
	ATOM	6680	CD1	PHE	E	294	-22.558	63.045	39.978	1.00	19.18	E	C
	ATOM	6681	CD2	PHE	E	294	-24.185	63.564	41.651	1.00	20.11	E	C
	ATOM	6682	CE1	PHE	E	294	-21.863	62.253	40.892	1.00	18.18	E	C
	ATOM	6683	CE2	PHE	E	294	-23.492	62.772	42.568	1.00	18.75	E	C
30	ATOM	6684	CZ	PHE	E	294	-22.332	62.118	42.186	1.00	16.36	E	C
	ATOM	6685	C	PHE	E	294	-26.188	62.737	39.169	1.00	18.83	E	C
	ATOM	6686	O	PHE	E	294	-25.793	61.602	39.412	1.00	18.97	E	O
	ATOM	6687	N	TYR	E	295	-27.372	63.179	39.567	1.00	19.15	E	N
35	ATOM	6688	CA	TYR	E	295	-28.241	62.359	40.389	1.00	18.28	E	C
	ATOM	6689	CB	TYR	E	295	-29.318	63.242	41.015	1.00	18.41	E	C
	ATOM	6690	CG	TYR	E	295	-28.697	64.273	41.926	1.00	21.18	E	C
	ATOM	6691	CD1	TYR	E	295	-28.268	63.927	43.206	1.00	22.34	E	C
	ATOM	6692	CE1	TYR	E	295	-27.626	64.848	44.026	1.00	21.49	E	C
	ATOM	6693	CD2	TYR	E	295	-28.467	65.574	41.488	1.00	20.90	E	C
40	ATOM	6694	CE2	TYR	E	295	-27.824	66.504	42.301	1.00	22.05	E	C
	ATOM	6695	CZ	TYR	E	295	-27.408	66.132	43.568	1.00	23.73	E	C
	ATOM	6696	OH	TYR	E	295	-26.800	67.052	44.391	1.00	29.19	E	O
	ATOM	6697	C	TYR	E	295	-28.849	61.110	39.779	1.00	20.42	E	C
	ATOM	6698	O	TYR	E	295	-29.288	60.221	40.511	1.00	22.40	E	O
45	ATOM	6699	N	ASN	E	296	-28.903	61.009	38.459	1.00	18.64	E	N
	ATOM	6700	CA	ASN	E	296	-29.443	59.777	37.904	1.00	16.68	E	C
	ATOM	6701	CB	ASN	E	296	-30.820	59.984	37.243	1.00	17.26	E	C
	ATOM	6702	CG	ASN	E	296	-30.781	60.837	36.004	1.00	17.24	E	C
	ATOM	6703	OD1	ASN	E	296	-31.767	60.901	35.281	1.00	15.17	E	O
50	ATOM	6704	ND2	ASN	E	296	-29.662	61.503	35.751	1.00	18.84	E	N
	ATOM	6705	C	ASN	E	296	-28.461	59.067	36.994	1.00	16.40	E	C
	ATOM	6706	O	ASN	E	296	-28.841	58.405	36.037	1.00	16.10	E	O
	ATOM	6707	N	CYS	E	297	-27.182	59.221	37.341	1.00	18.06	E	N
	ATOM	6708	CA	CYS	E	297	-26.052	58.569	36.683	1.00	14.55	E	C
55	ATOM	6709	CB	CYS	E	297	-24.817	59.471	36.666	1.00	15.75	E	C
	ATOM	6710	SG	CYS	E	297	-24.749	60.654	35.337	1.00	24.16	E	S
	ATOM	6711	C	CYS	E	297	-25.774	57.441	37.667	1.00	15.16	E	C
	ATOM	6712	O	CYS	E	297	-26.001	57.601	38.868	1.00	13.20	E	O
	ATOM	6713	N	ARG	E	298	-25.287	56.307	37.190	1.00	14.95	E	N
60	ATOM	6714	CA	ARG	E	298	-24.997	55.219	38.106	1.00	15.88	E	C
	ATOM	6715	CB	ARG	E	298	-24.974	53.891	37.362	1.00	16.11	E	C
	ATOM	6716	CG	ARG	E	298	-26.302	53.166	37.383	1.00	17.74	E	C
	ATOM	6717	CD	ARG	E	298	-27.334	53.894	36.547	1.00	16.86	E	C
	ATOM	6718	NE	ARG	E	298	-28.609	53.184	36.539	1.00	21.62	E	N
65	ATOM	6719	CZ	ARG	E	298	-29.597	53.441	35.690	1.00	21.38	E	C
	ATOM	6720	NH1	ARG	E	298	-29.451	54.394	34.777	1.00	23.74	E	N
	ATOM	6721	NH2	ARG	E	298	-30.730	52.754	35.757	1.00	17.93	E	N
	ATOM	6722	C	ARG	E	298	-23.651	55.459	38.774	1.00	20.28	E	C

	ATOM	6723	O	ARG	E	298	-22.693	55.884	38.122	1.00	20.76	E	O
	ATOM	6724	N	LYS	E	299	-23.589	55.206	40.080	1.00	20.45	E	N
	ATOM	6725	CA	LYS	E	299	-22.356	55.370	40.849	1.00	18.50	E	C
5	ATOM	6726	CB	LYS	E	299	-22.530	56.463	41.901	1.00	15.85	E	C
	ATOM	6727	CG	LYS	E	299	-21.964	57.809	41.501	1.00	17.36	E	C
	ATOM	6728	CD	LYS	E	299	-23.036	58.753	40.970	1.00	17.06	E	C
	ATOM	6729	CE	LYS	E	299	-24.344	58.602	41.719	1.00	16.12	E	C
	ATOM	6730	NZ	LYS	E	299	-25.453	59.320	41.048	1.00	13.93	E	N
10	ATOM	6731	C	LYS	E	299	-22.092	54.040	41.537	1.00	16.47	E	C
	ATOM	6732	O	LYS	E	299	-23.005	53.454	42.108	1.00	18.60	E	O
	ATOM	6733	N	VAL	E	300	-20.858	53.554	41.484	1.00	13.59	E	N
	ATOM	6734	CA	VAL	E	300	-20.541	52.282	42.123	1.00	14.28	E	C
	ATOM	6735	CB	VAL	E	300	-20.066	51.256	41.080	1.00	12.98	E	C
	ATOM	6736	CG1	VAL	E	300	-19.862	49.908	41.728	1.00	9.48	E	C
15	ATOM	6737	CG2	VAL	E	300	-21.090	51.150	39.963	1.00	12.83	E	C
	ATOM	6738	C	VAL	E	300	-19.479	52.392	43.223	1.00	15.10	E	C
	ATOM	6739	O	VAL	E	300	-18.437	53.023	43.032	1.00	19.70	E	O
	ATOM	6740	N	ASP	E	301	-19.759	51.794	44.378	1.00	14.85	E	N
20	ATOM	6741	CA	ASP	E	301	-18.820	51.792	45.498	1.00	13.01	E	C
	ATOM	6742	CB	ASP	E	301	-19.547	51.545	46.824	1.00	13.98	E	C
	ATOM	6743	CG	ASP	E	301	-18.735	51.988	48.030	1.00	14.74	E	C
	ATOM	6744	OD1	ASP	E	301	-19.324	52.149	49.115	1.00	20.53	E	O
	ATOM	6745	OD2	ASP	E	301	-17.510	52.177	47.903	1.00	16.17	E	O
	ATOM	6746	C	ASP	E	301	-17.898	50.633	45.193	1.00	11.93	E	C
25	ATOM	6747	O	ASP	E	301	-18.170	49.482	45.534	1.00	8.32	E	O
	ATOM	6748	N	THR	E	302	-16.796	50.952	44.544	1.00	12.10	E	N
	ATOM	6749	CA	THR	E	302	-15.842	49.948	44.122	1.00	15.53	E	C
	ATOM	6750	CB	THR	E	302	-14.972	50.534	42.992	1.00	15.84	E	C
	ATOM	6751	OG1	THR	E	302	-14.648	51.897	43.300	1.00	11.41	E	O
30	ATOM	6752	CG2	THR	E	302	-15.740	50.495	41.664	1.00	8.35	E	C
	ATOM	6753	C	THR	E	302	-14.941	49.359	45.202	1.00	16.66	E	C
	ATOM	6754	O	THR	E	302	-14.186	48.419	44.943	1.00	16.49	E	O
	ATOM	6755	N	HIS	E	303	-15.026	49.885	46.416	1.00	16.71	E	N
35	ATOM	6756	CA	HIS	E	303	-14.165	49.401	47.484	1.00	17.30	E	C
	ATOM	6757	CB	HIS	E	303	-12.871	50.207	47.483	1.00	18.61	E	C
	ATOM	6758	CG	HIS	E	303	-12.073	50.087	48.741	1.00	21.60	E	C
	ATOM	6759	CD2	HIS	E	303	-11.788	49.017	49.522	1.00	18.20	E	C
	ATOM	6760	ND1	HIS	E	303	-11.417	51.162	49.305	1.00	19.88	E	N
40	ATOM	6761	CE1	HIS	E	303	-10.762	50.758	50.378	1.00	21.15	E	C
	ATOM	6762	NE2	HIS	E	303	-10.971	49.463	50.531	1.00	21.96	E	N
	ATOM	6763	C	HIS	E	303	-14.873	49.533	48.814	1.00	19.04	E	C
	ATOM	6764	O	HIS	E	303	-14.827	50.596	49.445	1.00	16.91	E	O
	ATOM	6765	N	ILE	E	304	-15.514	48.441	49.234	1.00	18.12	E	N
45	ATOM	6766	CA	ILE	E	304	-16.269	48.415	50.474	1.00	17.33	E	C
	ATOM	6767	CB	ILE	E	304	-17.725	48.858	50.208	1.00	16.62	E	C
	ATOM	6768	CG2	ILE	E	304	-18.275	48.111	49.018	1.00	14.76	E	C
	ATOM	6769	CG1	ILE	E	304	-18.598	48.622	51.438	1.00	16.07	E	C
	ATOM	6770	CD1	ILE	E	304	-19.761	49.600	51.535	1.00	13.12	E	C
50	ATOM	6771	C	ILE	E	304	-16.257	47.020	51.094	1.00	17.46	E	C
	ATOM	6772	O	ILE	E	304	-16.435	46.022	50.394	1.00	18.05	E	O
	ATOM	6773	N	HIS	E	305	-16.048	46.959	52.410	1.00	15.35	E	N
	ATOM	6774	CA	HIS	E	305	-16.011	45.689	53.130	1.00	12.12	E	C
	ATOM	6775	CB	HIS	E	305	-14.926	45.739	54.202	1.00	11.13	E	C
	ATOM	6776	CG	HIS	E	305	-13.577	46.117	53.674	1.00	10.33	E	C
55	ATOM	6777	CD2	HIS	E	305	-13.033	47.332	53.397	1.00	10.43	E	C
	ATOM	6778	ND1	HIS	E	305	-12.602	45.187	53.381	1.00	9.49	E	N
	ATOM	6779	CE1	HIS	E	305	-11.519	45.809	52.947	1.00	12.03	E	C
	ATOM	6780	NE2	HIS	E	305	-11.756	47.110	52.947	1.00	8.93	E	N
60	ATOM	6781	C	HIS	E	305	-17.369	45.387	53.755	1.00	10.78	E	C
	ATOM	6782	O	HIS	E	305	-17.927	46.210	54.468	1.00	13.76	E	O
	ATOM	6783	N	ALA	E	306	-17.892	44.197	53.475	1.00	11.29	E	N
	ATOM	6784	CA	ALA	E	306	-19.201	43.769	53.969	1.00	12.68	E	C
	ATOM	6785	CB	ALA	E	306	-19.428	42.298	53.630	1.00	6.07	E	C
	ATOM	6786	C	ALA	E	306	-19.424	43.998	55.463	1.00	15.15	E	C
65	ATOM	6787	O	ALA	E	306	-20.486	44.474	55.867	1.00	17.04	E	O
	ATOM	6788	N	ALA	E	307	-18.427	43.665	56.277	1.00	15.57	E	N
	ATOM	6789	CA	ALA	E	307	-18.528	43.828	57.720	1.00	16.04	E	C
	ATOM	6790	CB	ALA	E	307	-17.269	43.299	58.381	1.00	11.22	E	C

	ATOM	6791	C	ALA	E	307	-18.775	45.269	58.160	1.00	16.14	E	C
	ATOM	6792	O	ALA	E	307	-19.111	45.509	59.314	1.00	20.76	E	O
	ATOM	6793	N	ALA	E	308	-18.619	46.224	57.252	1.00	12.45	E	N
	ATOM	6794	CA	ALA	E	308	-18.815	47.620	57.600	1.00	11.25	E	C
5	ATOM	6795	CB	ALA	E	308	-17.477	48.302	57.720	1.00	11.66	E	C
	ATOM	6796	C	ALA	E	308	-19.678	48.363	56.600	1.00	14.62	E	C
	ATOM	6797	O	ALA	E	308	-19.688	49.597	56.576	1.00	13.99	E	O
	ATOM	6798	N	CYS	E	309	-20.427	47.621	55.793	1.00	17.06	E	N
10	ATOM	6799	CA	CYS	E	309	-21.265	48.238	54.770	1.00	19.34	E	C
	ATOM	6800	CB	CYS	E	309	-21.649	47.206	53.702	1.00	20.94	E	C
	ATOM	6801	SG	CYS	E	309	-22.746	45.872	54.236	1.00	20.44	E	S
	ATOM	6802	C	CYS	E	309	-22.518	48.936	55.277	1.00	20.56	E	C
	ATOM	6803	O	CYS	E	309	-23.212	49.603	54.505	1.00	22.34	E	O
15	ATOM	6804	N	MET	E	310	-22.811	48.802	56.567	1.00	20.40	E	N
	ATOM	6805	CA	MET	E	310	-24.002	49.445	57.133	1.00	18.15	E	C
	ATOM	6806	CB	MET	E	310	-24.778	48.444	58.001	1.00	16.16	E	C
	ATOM	6807	CG	MET	E	310	-24.186	48.205	59.383	1.00	10.44	E	C
	ATOM	6808	SD	MET	E	310	-22.566	47.412	59.336	1.00	13.83	E	S
20	ATOM	6809	CE	MET	E	310	-22.974	45.777	58.764	1.00	8.85	E	C
	ATOM	6810	C	MET	E	310	-23.638	50.684	57.958	1.00	19.82	E	C
	ATOM	6811	O	MET	E	310	-22.514	50.808	58.450	1.00	18.10	E	O
	ATOM	6812	N	ASN	E	311	-24.579	51.614	58.091	1.00	21.22	E	N
	ATOM	6813	CA	ASN	E	311	-24.312	52.806	58.885	1.00	24.94	E	C
25	ATOM	6814	CB	ASN	E	311	-25.359	53.906	58.649	1.00	30.29	E	C
	ATOM	6815	CG	ASN	E	311	-24.998	55.216	59.374	1.00	41.35	E	C
	ATOM	6816	OD1	ASN	E	311	-23.876	55.735	59.231	1.00	45.68	E	O
	ATOM	6817	ND2	ASN	E	311	-25.940	55.749	60.162	1.00	41.90	E	N
	ATOM	6818	C	ASN	E	311	-24.339	52.399	60.350	1.00	21.77	E	C
30	ATOM	6819	O	ASN	E	311	-25.012	51.438	60.726	1.00	19.77	E	O
	ATOM	6820	N	GLN	E	312	-23.604	53.128	61.177	1.00	20.74	E	N
	ATOM	6821	CA	GLN	E	312	-23.568	52.813	62.590	1.00	20.42	E	C
	ATOM	6822	CB	GLN	E	312	-22.569	53.718	63.297	1.00	17.19	E	C
	ATOM	6823	CG	GLN	E	312	-22.934	55.170	63.298	1.00	16.13	E	C
35	ATOM	6824	CD	GLN	E	312	-21.956	55.989	64.116	1.00	19.45	E	C
	ATOM	6825	OE1	GLN	E	312	-21.259	55.460	64.987	1.00	20.02	E	O
	ATOM	6826	NE2	GLN	E	312	-21.892	57.287	63.839	1.00	19.49	E	N
	ATOM	6827	C	GLN	E	312	-24.955	52.941	63.222	1.00	20.80	E	C
	ATOM	6828	O	GLN	E	312	-25.278	52.215	64.158	1.00	24.12	E	O
40	ATOM	6829	N	LYS	E	313	-25.778	53.851	62.706	1.00	19.43	E	N
	ATOM	6830	CA	LYS	E	313	-27.125	54.035	63.231	1.00	18.23	E	C
	ATOM	6831	CB	LYS	E	313	-27.703	55.369	62.762	1.00	18.10	E	C
	ATOM	6832	CG	LYS	E	313	-27.785	56.406	63.871	1.00	24.78	E	C
	ATOM	6833	CD	LYS	E	313	-28.671	57.567	63.482	1.00	31.69	E	C
45	ATOM	6834	CE	LYS	E	313	-28.031	58.378	62.361	1.00	37.23	E	C
	ATOM	6835	NZ	LYS	E	313	-28.857	58.337	61.107	1.00	42.74	E	N
	ATOM	6836	C	LYS	E	313	-28.031	52.895	62.788	1.00	19.02	E	C
	ATOM	6837	O	LYS	E	313	-29.057	52.610	63.417	1.00	19.38	E	O
	ATOM	6838	N	HIS	E	314	-27.640	52.247	61.696	1.00	19.34	E	N
50	ATOM	6839	CA	HIS	E	314	-28.385	51.126	61.153	1.00	17.45	E	C
	ATOM	6840	CB	HIS	E	314	-27.962	50.885	59.698	1.00	18.60	E	C
	ATOM	6841	CG	HIS	E	314	-28.661	49.738	59.034	1.00	21.43	E	C
	ATOM	6842	CD2	HIS	E	314	-28.538	49.223	57.789	1.00	22.79	E	C
	ATOM	6843	ND1	HIS	E	314	-29.597	48.955	59.678	1.00	26.66	E	N
55	ATOM	6844	CE1	HIS	E	314	-30.016	48.007	58.860	1.00	25.48	E	C
	ATOM	6845	NE2	HIS	E	314	-29.389	48.147	57.705	1.00	25.60	E	N
	ATOM	6846	C	HIS	E	314	-28.070	49.910	62.025	1.00	17.15	E	C
	ATOM	6847	O	HIS	E	314	-28.957	49.130	62.368	1.00	16.26	E	O
	ATOM	6848	N	LEU	E	315	-26.803	49.756	62.392	1.00	17.42	E	N
60	ATOM	6849	CA	LEU	E	315	-26.404	48.639	63.230	1.00	17.98	E	C
	ATOM	6850	CB	LEU	E	315	-24.883	48.602	63.382	1.00	16.91	E	C
	ATOM	6851	CG	LEU	E	315	-24.360	47.583	64.400	1.00	17.22	E	C
	ATOM	6852	CD1	LEU	E	315	-24.737	46.171	63.960	1.00	12.12	E	C
	ATOM	6853	CD2	LEU	E	315	-22.847	47.728	64.545	1.00	15.53	E	C
65	ATOM	6854	C	LEU	E	315	-27.061	48.782	64.601	1.00	20.06	E	C
	ATOM	6855	O	LEU	E	315	-27.617	47.823	65.130	1.00	23.19	E	O
	ATOM	6856	N	LEU	E	316	-27.004	49.983	65.169	1.00	18.49	E	N
	ATOM	6857	CA	LEU	E	316	-27.599	50.244	66.477	1.00	17.73	E	C
	ATOM	6858	CB	LEU	E	316	-27.434	51.713	66.847	1.00	16.53	E	C

	ATOM	6859	CG	LEU	E	316	-27.891	52.069	68.263	1.00	15.55	E	C
	ATOM	6860	CD1	LEU	E	316	-26.879	51.527	69.261	1.00	16.31	E	C
	ATOM	6861	CD2	LEU	E	316	-28.026	53.572	68.410	1.00	13.05	E	C
5	ATOM	6862	C	LEU	E	316	-29.080	49.900	66.488	1.00	19.19	E	C
	ATOM	6863	O	LEU	E	316	-29.585	49.275	67.417	1.00	20.54	E	O
	ATOM	6864	N	ARG	E	317	-29.773	50.324	65.443	1.00	21.79	E	N
	ATOM	6865	CA	ARG	E	317	-31.195	50.073	65.303	1.00	20.65	E	C
	ATOM	6866	CB	ARG	E	317	-31.686	50.733	64.016	1.00	25.84	E	C
10	ATOM	6867	CG	ARG	E	317	-33.180	50.707	63.802	1.00	31.96	E	C
	ATOM	6868	CD	ARG	E	317	-33.594	51.767	62.783	1.00	37.49	E	C
	ATOM	6869	NE	ARG	E	317	-32.823	51.692	61.540	1.00	43.38	E	N
	ATOM	6870	CZ	ARG	E	317	-32.094	52.692	61.051	1.00	45.56	E	C
	ATOM	6871	NH1	ARG	E	317	-32.037	53.847	61.704	1.00	46.72	E	N
	ATOM	6872	NH2	ARG	E	317	-31.430	52.544	59.910	1.00	43.93	E	N
15	ATOM	6873	C	ARG	E	317	-31.499	48.576	65.275	1.00	21.06	E	C
	ATOM	6874	O	ARG	E	317	-32.467	48.122	65.880	1.00	21.15	E	O
	ATOM	6875	N	PHE	E	318	-30.664	47.806	64.584	1.00	20.15	E	N
	ATOM	6876	CA	PHE	E	318	-30.884	46.369	64.473	1.00	19.57	E	C
	ATOM	6877	CB	PHE	E	318	-30.053	45.780	63.332	1.00	18.17	E	C
20	ATOM	6878	CG	PHE	E	318	-30.180	44.290	63.204	1.00	18.23	E	C
	ATOM	6879	CD1	PHE	E	318	-31.152	43.730	62.382	1.00	19.82	E	C
	ATOM	6880	CD2	PHE	E	318	-29.333	43.443	63.913	1.00	18.66	E	C
	ATOM	6881	CE1	PHE	E	318	-31.283	42.342	62.265	1.00	18.80	E	C
	ATOM	6882	CE2	PHE	E	318	-29.453	42.057	63.806	1.00	18.06	E	C
25	ATOM	6883	CZ	PHE	E	318	-30.433	41.506	62.978	1.00	18.57	E	C
	ATOM	6884	C	PHE	E	318	-30.575	45.610	65.753	1.00	21.23	E	C
	ATOM	6885	O	PHE	E	318	-31.220	44.600	66.060	1.00	22.05	E	O
	ATOM	6886	N	ILE	E	319	-29.581	46.073	66.498	1.00	19.53	E	N
	ATOM	6887	CA	ILE	E	319	-29.241	45.397	67.734	1.00	19.42	E	C
30	ATOM	6888	CB	ILE	E	319	-28.034	46.056	68.411	1.00	18.06	E	C
	ATOM	6889	CG2	ILE	E	319	-27.842	45.481	69.805	1.00	19.60	E	C
	ATOM	6890	CG1	ILE	E	319	-26.785	45.817	67.560	1.00	14.63	E	C
	ATOM	6891	CD1	ILE	E	319	-25.531	46.416	68.125	1.00	11.61	E	C
	ATOM	6892	C	ILE	E	319	-30.448	45.443	68.663	1.00	20.81	E	C
35	ATOM	6893	O	ILE	E	319	-30.866	44.414	69.199	1.00	22.62	E	O
	ATOM	6894	N	LYS	E	320	-31.020	46.632	68.827	1.00	19.26	E	N
	ATOM	6895	CA	LYS	E	320	-32.180	46.805	69.686	1.00	20.47	E	C
	ATOM	6896	CB	LYS	E	320	-32.577	48.276	69.741	1.00	17.02	E	C
	ATOM	6897	CG	LYS	E	320	-31.474	49.186	70.234	1.00	14.35	E	C
40	ATOM	6898	CD	LYS	E	320	-31.999	50.584	70.494	1.00	15.83	E	C
	ATOM	6899	CE	LYS	E	320	-30.952	51.453	71.157	1.00	18.13	E	C
	ATOM	6900	NZ	LYS	E	320	-31.332	52.889	71.102	1.00	22.80	E	N
	ATOM	6901	C	LYS	E	320	-33.360	45.965	69.206	1.00	22.71	E	C
	ATOM	6902	O	LYS	E	320	-34.059	45.343	70.007	1.00	26.06	E	O
45	ATOM	6903	N	LYS	E	321	-33.579	45.940	67.899	1.00	23.42	E	N
	ATOM	6904	CA	LYS	E	321	-34.676	45.164	67.340	1.00	23.71	E	C
	ATOM	6905	CB	LYS	E	321	-34.789	45.417	65.834	1.00	24.49	E	C
	ATOM	6906	CG	LYS	E	321	-36.118	44.994	65.227	1.00	26.25	E	C
	ATOM	6907	CD	LYS	E	321	-37.292	45.644	65.946	1.00	33.47	E	C
50	ATOM	6908	CE	LYS	E	321	-38.621	45.342	65.254	1.00	36.07	E	C
	ATOM	6909	NZ	LYS	E	321	-38.608	44.026	64.547	1.00	41.06	E	N
	ATOM	6910	C	LYS	E	321	-34.476	43.674	67.603	1.00	23.08	E	C
	ATOM	6911	O	LYS	E	321	-35.427	42.957	67.909	1.00	22.62	E	O
	ATOM	6912	N	SER	E	322	-33.237	43.212	67.488	1.00	23.33	E	N
55	ATOM	6913	CA	SER	E	322	-32.938	41.805	67.718	1.00	23.70	E	C
	ATOM	6914	CB	SER	E	322	-31.469	41.513	67.393	1.00	20.72	E	C
	ATOM	6915	OG	SER	E	322	-30.601	42.095	68.347	1.00	16.50	E	O
	ATOM	6916	C	SER	E	322	-33.249	41.391	69.159	1.00	25.71	E	C
	ATOM	6917	O	SER	E	322	-33.672	40.262	69.413	1.00	24.66	E	O
60	ATOM	6918	N	TYR	E	323	-33.040	42.306	70.100	1.00	28.44	E	N
	ATOM	6919	CA	TYR	E	323	-33.314	42.017	71.502	1.00	29.43	E	C
	ATOM	6920	CB	TYR	E	323	-32.712	43.100	72.392	1.00	29.08	E	C
	ATOM	6921	CG	TYR	E	323	-32.965	42.881	73.864	1.00	32.48	E	C
	ATOM	6922	CD1	TYR	E	323	-34.081	43.433	74.489	1.00	34.60	E	C
65	ATOM	6923	CE1	TYR	E	323	-34.313	43.244	75.848	1.00	35.96	E	C
	ATOM	6924	CD2	TYR	E	323	-32.083	42.131	74.638	1.00	34.33	E	C
	ATOM	6925	CE2	TYR	E	323	-32.303	41.935	75.996	1.00	36.34	E	C
	ATOM	6926	CZ	TYR	E	323	-33.420	42.496	76.597	1.00	38.31	E	C

	ATOM	6927	OH	TYR	E	323	-33.645	42.315	77.945	1.00	40.18	E	O
	ATOM	6928	C	TYR	E	323	-34.817	41.944	71.735	1.00	29.95	E	C
	ATOM	6929	O	TYR	E	323	-35.314	41.064	72.438	1.00	29.53	E	O
5	ATOM	6930	N	GLN	E	324	-35.537	42.876	71.129	1.00	30.55	E	N
	ATOM	6931	CA	GLN	E	324	-36.979	42.934	71.263	1.00	29.96	E	C
	ATOM	6932	CB	GLN	E	324	-37.520	44.119	70.452	1.00	33.40	E	C
	ATOM	6933	CG	GLN	E	324	-39.036	44.171	70.310	1.00	39.05	E	C
	ATOM	6934	CD	GLN	E	324	-39.480	44.887	69.041	1.00	44.94	E	C
10	ATOM	6935	OE1	GLN	E	324	-39.056	46.015	68.766	1.00	46.05	E	O
	ATOM	6936	NE2	GLN	E	324	-40.338	44.230	68.257	1.00	45.34	E	N
	ATOM	6937	C	GLN	E	324	-37.652	41.639	70.820	1.00	28.63	E	C
	ATOM	6938	O	GLN	E	324	-38.637	41.217	71.418	1.00	28.24	E	O
	ATOM	6939	N	VAL	E	325	-37.116	40.994	69.789	1.00	28.27	E	N
15	ATOM	6940	CA	VAL	E	325	-37.729	39.766	69.292	1.00	28.90	E	C
	ATOM	6941	CB	VAL	E	325	-37.994	39.848	67.755	1.00	27.23	E	C
	ATOM	6942	CG1	VAL	E	325	-38.253	41.282	67.346	1.00	25.17	E	C
	ATOM	6943	CG2	VAL	E	325	-36.829	39.268	66.982	1.00	24.15	E	C
	ATOM	6944	C	VAL	E	325	-36.999	38.450	69.582	1.00	30.99	E	C
20	ATOM	6945	O	VAL	E	325	-37.614	37.382	69.549	1.00	32.46	E	O
	ATOM	6946	N	ASP	E	326	-35.702	38.512	69.867	1.00	29.57	E	N
	ATOM	6947	CA	ASP	E	326	-34.944	37.292	70.134	1.00	28.06	E	C
	ATOM	6948	CB	ASP	E	326	-33.843	37.105	69.082	1.00	29.19	E	C
	ATOM	6949	CG	ASP	E	326	-34.360	36.517	67.775	1.00	31.15	E	C
25	ATOM	6950	OD1	ASP	E	326	-35.528	36.051	67.731	1.00	33.72	E	O
	ATOM	6951	OD2	ASP	E	326	-33.586	36.521	66.785	1.00	30.79	E	O
	ATOM	6952	C	ASP	E	326	-34.302	37.319	71.510	1.00	28.23	E	C
	ATOM	6953	O	ASP	E	326	-33.314	36.625	71.745	1.00	27.12	E	O
	ATOM	6954	N	ALA	E	327	-34.854	38.118	72.420	1.00	29.44	E	N
30	ATOM	6955	CA	ALA	E	327	-34.305	38.223	73.774	1.00	30.52	E	C
	ATOM	6956	CB	ALA	E	327	-35.239	39.048	74.654	1.00	27.81	E	C
	ATOM	6957	C	ALA	E	327	-34.021	36.875	74.443	1.00	30.22	E	C
	ATOM	6958	O	ALA	E	327	-33.033	36.738	75.172	1.00	29.93	E	O
	ATOM	6959	N	ASP	E	328	-34.871	35.881	74.187	1.00	32.75	E	N
35	ATOM	6960	CA	ASP	E	328	-34.707	34.563	74.801	1.00	33.81	E	C
	ATOM	6961	CB	ASP	E	328	-36.024	34.126	75.453	1.00	33.46	E	C
	ATOM	6962	CG	ASP	E	328	-36.497	35.101	76.522	1.00	35.21	E	C
	ATOM	6963	OD1	ASP	E	328	-35.702	35.444	77.427	1.00	35.55	E	O
	ATOM	6964	OD2	ASP	E	328	-37.667	35.528	76.454	1.00	37.19	E	O
40	ATOM	6965	C	ASP	E	328	-34.207	33.461	73.872	1.00	32.70	E	C
	ATOM	6966	O	ASP	E	328	-34.308	32.279	74.198	1.00	33.99	E	O
	ATOM	6967	N	ARG	E	329	-33.665	33.852	72.723	1.00	31.26	E	N
	ATOM	6968	CA	ARG	E	329	-33.135	32.904	71.752	1.00	27.95	E	C
	ATOM	6969	CB	ARG	E	329	-33.061	33.559	70.366	1.00	30.75	E	C
45	ATOM	6970	CG	ARG	E	329	-33.300	32.624	69.183	1.00	34.31	E	C
	ATOM	6971	CD	ARG	E	329	-32.139	32.641	68.184	1.00	31.61	E	C
	ATOM	6972	NE	ARG	E	329	-32.411	33.509	67.039	1.00	32.79	E	N
	ATOM	6973	CZ	ARG	E	329	-32.073	33.237	65.780	1.00	31.60	E	C
	ATOM	6974	NH1	ARG	E	329	-31.449	32.110	65.471	1.00	31.57	E	N
50	ATOM	6975	NH2	ARG	E	329	-32.351	34.106	64.822	1.00	31.86	E	N
	ATOM	6976	C	ARG	E	329	-31.729	32.517	72.192	1.00	27.86	E	C
	ATOM	6977	O	ARG	E	329	-30.951	33.380	72.607	1.00	25.04	E	O
	ATOM	6978	N	VAL	E	330	-31.402	31.228	72.120	1.00	28.26	E	N
	ATOM	6979	CA	VAL	E	330	-30.061	30.783	72.482	1.00	27.48	E	C
55	ATOM	6980	CB	VAL	E	330	-29.970	29.258	72.609	1.00	28.48	E	C
	ATOM	6981	CG1	VAL	E	330	-28.535	28.850	72.904	1.00	26.24	E	C
	ATOM	6982	CG2	VAL	E	330	-30.888	28.782	73.719	1.00	29.64	E	C
	ATOM	6983	C	VAL	E	330	-29.218	31.248	71.310	1.00	29.59	E	C
	ATOM	6984	O	VAL	E	330	-29.454	30.850	70.164	1.00	29.95	E	O
60	ATOM	6985	N	VAL	E	331	-28.231	32.090	71.589	1.00	30.19	E	N
	ATOM	6986	CA	VAL	E	331	-27.425	32.648	70.518	1.00	29.91	E	C
	ATOM	6987	CB	VAL	E	331	-27.839	34.116	70.316	1.00	26.71	E	C
	ATOM	6988	CG1	VAL	E	331	-26.933	35.032	71.108	1.00	24.09	E	C
	ATOM	6989	CG2	VAL	E	331	-27.839	34.456	68.855	1.00	30.43	E	C
	ATOM	6990	C	VAL	E	331	-25.911	32.560	70.692	1.00	30.96	E	C
65	ATOM	6991	O	VAL	E	331	-25.156	32.748	69.740	1.00	27.65	E	O
	ATOM	6992	N	TYR	E	332	-25.473	32.260	71.907	1.00	35.46	E	N
	ATOM	6993	CA	TYR	E	332	-24.052	32.179	72.216	1.00	37.66	E	C
	ATOM	6994	CB	TYR	E	332	-23.675	33.396	73.058	1.00	38.09	E	C

	ATOM	6995	CG	TYR	E	332	-22.236	33.480	73.504	1.00	39.31	E	C
	ATOM	6996	CD1	TYR	E	332	-21.288	34.159	72.737	1.00	38.94	E	C
	ATOM	6997	CE1	TYR	E	332	-19.976	34.318	73.187	1.00	40.75	E	C
5	ATOM	6998	CD2	TYR	E	332	-21.835	32.951	74.737	1.00	41.09	E	C
	ATOM	6999	CE2	TYR	E	332	-20.523	33.105	75.199	1.00	42.14	E	C
	ATOM	7000	CZ	TYR	E	332	-19.602	33.791	74.419	1.00	41.28	E	C
	ATOM	7001	OH	TYR	E	332	-18.317	33.963	74.876	1.00	43.20	E	O
	ATOM	7002	C	TYR	E	332	-23.776	30.890	72.975	1.00	41.57	E	C
10	ATOM	7003	O	TYR	E	332	-24.646	30.392	73.691	1.00	44.48	E	O
	ATOM	7004	N	SER	E	333	-22.575	30.343	72.823	1.00	43.34	E	N
	ATOM	7005	CA	SER	E	333	-22.245	29.105	73.511	1.00	49.30	E	C
	ATOM	7006	CB	SER	E	333	-21.825	28.034	72.503	1.00	46.88	E	C
	ATOM	7007	OG	SER	E	333	-21.203	26.944	73.164	1.00	47.14	E	O
15	ATOM	7008	C	SER	E	333	-21.161	29.242	74.579	1.00	55.11	E	C
	ATOM	7009	O	SER	E	333	-20.052	29.713	74.303	1.00	55.52	E	O
	ATOM	7010	N	THR	E	334	-21.501	28.832	75.801	1.00	58.77	E	N
	ATOM	7011	CA	THR	E	334	-20.566	28.858	76.926	1.00	60.70	E	C
	ATOM	7012	CB	THR	E	334	-20.883	30.003	77.940	1.00	61.02	E	C
20	ATOM	7013	OG1	THR	E	334	-19.729	30.849	78.073	1.00	58.88	E	O
	ATOM	7014	CG2	THR	E	334	-21.246	29.440	79.323	1.00	58.62	E	C
	ATOM	7015	C	THR	E	334	-20.685	27.507	77.615	1.00	61.97	E	C
	ATOM	7016	O	THR	E	334	-21.783	26.948	77.714	1.00	59.97	E	O
	ATOM	7017	N	LYS	E	335	-19.551	26.993	78.081	1.00	63.01	E	N
25	ATOM	7018	CA	LYS	E	335	-19.496	25.696	78.743	1.00	64.06	E	C
	ATOM	7019	CB	LYS	E	335	-18.271	25.625	79.657	1.00	61.66	E	C
	ATOM	7020	CG	LYS	E	335	-17.604	24.251	79.676	1.00	62.03	E	C
	ATOM	7021	CD	LYS	E	335	-18.593	23.117	79.978	1.00	59.70	E	C
	ATOM	7022	CE	LYS	E	335	-18.468	21.984	78.963	1.00	59.74	E	C
30	ATOM	7023	NZ	LYS	E	335	-18.514	20.628	79.596	1.00	58.47	E	N
	ATOM	7024	C	LYS	E	335	-20.741	25.297	79.539	1.00	65.36	E	C
	ATOM	7025	O	LYS	E	335	-21.647	24.642	79.008	1.00	66.81	E	O
	ATOM	7026	N	GLU	E	336	-20.782	25.684	80.812	1.00	66.17	E	N
	ATOM	7027	CA	GLU	E	336	-21.900	25.326	81.680	1.00	65.97	E	C
35	ATOM	7028	CB	GLU	E	336	-21.686	25.886	83.092	1.00	66.82	E	C
	ATOM	7029	CG	GLU	E	336	-21.830	24.834	84.198	1.00	67.37	E	C
	ATOM	7030	CD	GLU	E	336	-21.867	23.401	83.665	1.00	68.22	E	C
	ATOM	7031	OE1	GLU	E	336	-22.971	22.915	83.323	1.00	66.29	E	O
	ATOM	7032	OE2	GLU	E	336	-20.789	22.767	83.591	1.00	67.72	E	O
40	ATOM	7033	C	GLU	E	336	-23.270	25.743	81.163	1.00	64.80	E	C
	ATOM	7034	O	GLU	E	336	-24.296	25.267	81.662	1.00	64.93	E	O
	ATOM	7035	N	LYS	E	337	-23.296	26.621	80.164	1.00	62.72	E	N
	ATOM	7036	CA	LYS	E	337	-24.571	27.056	79.609	1.00	59.83	E	C
	ATOM	7037	CB	LYS	E	337	-25.396	27.766	80.690	1.00	59.11	E	C
45	ATOM	7038	CG	LYS	E	337	-26.840	28.017	80.302	1.00	57.92	E	C
	ATOM	7039	CD	LYS	E	337	-27.483	29.046	81.218	1.00	57.29	E	C
	ATOM	7040	CE	LYS	E	337	-28.749	29.617	80.587	1.00	55.94	E	C
	ATOM	7041	NZ	LYS	E	337	-30.004	29.136	81.231	1.00	53.24	E	N
	ATOM	7042	C	LYS	E	337	-24.443	27.971	78.396	1.00	57.87	E	C
50	ATOM	7043	O	LYS	E	337	-23.760	28.995	78.443	1.00	59.26	E	O
	ATOM	7044	N	ASN	E	338	-25.090	27.588	77.302	1.00	52.89	E	N
	ATOM	7045	CA	ASN	E	338	-25.087	28.422	76.114	1.00	46.16	E	C
	ATOM	7046	CB	ASN	E	338	-25.692	27.667	74.929	1.00	48.15	E	C
	ATOM	7047	CG	ASN	E	338	-24.943	26.383	74.609	1.00	50.72	E	C
55	ATOM	7048	OD1	ASN	E	338	-23.706	26.346	74.634	1.00	53.11	E	O
	ATOM	7049	ND2	ASN	E	338	-25.688	25.319	74.305	1.00	51.03	E	N
	ATOM	7050	C	ASN	E	338	-26.009	29.541	76.572	1.00	42.11	E	C
	ATOM	7051	O	ASN	E	338	-26.954	29.288	77.312	1.00	41.76	E	O
	ATOM	7052	N	LEU	E	339	-25.740	30.771	76.155	1.00	37.02	E	N
60	ATOM	7053	CA	LEU	E	339	-26.561	31.893	76.587	1.00	33.98	E	C
	ATOM	7054	CB	LEU	E	339	-25.668	33.075	76.946	1.00	35.53	E	C
	ATOM	7055	CG	LEU	E	339	-24.309	32.700	77.534	1.00	34.81	E	C
	ATOM	7056	CD1	LEU	E	339	-23.398	33.905	77.527	1.00	32.45	E	C
	ATOM	7057	CD2	LEU	E	339	-24.504	32.171	78.950	1.00	38.35	E	C
65	ATOM	7058	C	LEU	E	339	-27.594	32.364	75.591	1.00	30.31	E	C
	ATOM	7059	O	LEU	E	339	-27.466	32.139	74.398	1.00	31.43	E	O
	ATOM	7060	N	THR	E	340	-28.630	33.016	76.104	1.00	29.60	E	N
	ATOM	7061	CA	THR	E	340	-29.664	33.577	75.262	1.00	29.54	E	C
	ATOM	7062	CB	THR	E	340	-31.011	33.694	75.997	1.00	28.42	E	C

	ATOM	7063	OG1	THR	E	340	-30.856	34.521	77.154	1.00	25.76	E	O
	ATOM	7064	CG2	THR	E	340	-31.511	32.327	76.412	1.00	28.14	E	C
	ATOM	7065	C	THR	E	340	-29.148	34.980	74.962	1.00	32.18	E	C
	ATOM	7066	O	THR	E	340	-28.163	35.418	75.563	1.00	31.86	E	O
5	ATOM	7067	N	LEU	E	341	-29.789	35.680	74.033	1.00	31.42	E	N
	ATOM	7068	CA	LEU	E	341	-29.365	37.032	73.702	1.00	28.71	E	C
	ATOM	7069	CB	LEU	E	341	-30.337	37.664	72.696	1.00	29.92	E	C
	ATOM	7070	CG	LEU	E	341	-30.016	39.076	72.192	1.00	28.83	E	C
10	ATOM	7071	CD1	LEU	E	341	-28.548	39.166	71.807	1.00	25.91	E	C
	ATOM	7072	CD2	LEU	E	341	-30.896	39.406	71.001	1.00	25.76	E	C
	ATOM	7073	C	LEU	E	341	-29.328	37.867	74.979	1.00	28.67	E	C
	ATOM	7074	O	LEU	E	341	-28.385	38.624	75.215	1.00	27.05	E	O
	ATOM	7075	N	LYS	E	342	-30.362	37.714	75.803	1.00	30.02	E	N
	ATOM	7076	CA	LYS	E	342	-30.468	38.445	77.059	1.00	27.76	E	C
15	ATOM	7077	CB	LYS	E	342	-31.779	38.088	77.757	1.00	28.91	E	C
	ATOM	7078	CG	LYS	E	342	-32.185	39.063	78.844	1.00	33.93	E	C
	ATOM	7079	CD	LYS	E	342	-33.524	38.671	79.460	1.00	39.30	E	C
	ATOM	7080	CE	LYS	E	342	-34.366	39.891	79.833	1.00	43.97	E	C
20	ATOM	7081	NZ	LYS	E	342	-35.615	40.004	79.008	1.00	46.16	E	N
	ATOM	7082	C	LYS	E	342	-29.296	38.131	77.980	1.00	25.84	E	C
	ATOM	7083	O	LYS	E	342	-28.642	39.033	78.498	1.00	22.85	E	O
	ATOM	7084	N	GLN	E	343	-29.031	36.846	78.176	1.00	23.85	E	N
	ATOM	7085	CA	GLN	E	343	-27.945	36.416	79.044	1.00	27.95	E	C
25	ATOM	7086	CB	GLN	E	343	-27.901	34.894	79.126	1.00	28.15	E	C
	ATOM	7087	CG	GLN	E	343	-29.041	34.288	79.909	1.00	32.76	E	C
	ATOM	7088	CD	GLN	E	343	-29.084	32.786	79.775	1.00	33.35	E	C
	ATOM	7089	OE1	GLN	E	343	-28.140	32.173	79.284	1.00	34.16	E	O
	ATOM	7090	NE2	GLN	E	343	-30.182	32.183	80.208	1.00	35.67	E	N
30	ATOM	7091	C	GLN	E	343	-26.593	36.921	78.573	1.00	30.21	E	C
	ATOM	7092	O	GLN	E	343	-25.703	37.203	79.384	1.00	31.64	E	O
	ATOM	7093	N	LEU	E	344	-26.427	37.016	77.259	1.00	30.22	E	N
	ATOM	7094	CA	LEU	E	344	-25.171	37.488	76.699	1.00	28.95	E	C
	ATOM	7095	CB	LEU	E	344	-25.170	37.328	75.175	1.00	26.81	E	C
35	ATOM	7096	CG	LEU	E	344	-23.898	37.794	74.457	1.00	25.35	E	C
	ATOM	7097	CD1	LEU	E	344	-22.670	37.222	75.149	1.00	20.54	E	C
	ATOM	7098	CD2	LEU	E	344	-23.945	37.360	72.995	1.00	23.63	E	C
	ATOM	7099	C	LEU	E	344	-24.977	38.950	77.073	1.00	28.21	E	C
	ATOM	7100	O	LEU	E	344	-23.891	39.356	77.476	1.00	27.97	E	O
40	ATOM	7101	N	PHE	E	345	-26.036	39.740	76.944	1.00	28.10	E	N
	ATOM	7102	CA	PHE	E	345	-25.961	41.150	77.291	1.00	29.00	E	C
	ATOM	7103	CB	PHE	E	345	-27.221	41.881	76.821	1.00	29.25	E	C
	ATOM	7104	CG	PHE	E	345	-27.181	42.269	75.369	1.00	30.95	E	C
	ATOM	7105	CD1	PHE	E	345	-26.199	43.135	74.896	1.00	30.72	E	C
	ATOM	7106	CD2	PHE	E	345	-28.104	41.751	74.463	1.00	29.52	E	C
45	ATOM	7107	CE1	PHE	E	345	-26.136	43.477	73.543	1.00	25.96	E	C
	ATOM	7108	CE2	PHE	E	345	-28.044	42.091	73.109	1.00	25.40	E	C
	ATOM	7109	CZ	PHE	E	345	-27.060	42.954	72.653	1.00	23.53	E	C
	ATOM	7110	C	PHE	E	345	-25.776	41.322	78.799	1.00	31.96	E	C
50	ATOM	7111	O	PHE	E	345	-25.174	42.302	79.248	1.00	29.59	E	O
	ATOM	7112	N	ASP	E	346	-26.295	40.368	79.575	1.00	33.54	E	N
	ATOM	7113	CA	ASP	E	346	-26.160	40.399	81.032	1.00	33.73	E	C
	ATOM	7114	CB	ASP	E	346	-26.982	39.284	81.676	1.00	37.26	E	C
	ATOM	7115	CG	ASP	E	346	-28.386	39.722	82.031	1.00	40.92	E	C
55	ATOM	7116	OD1	ASP	E	346	-28.778	40.845	81.651	1.00	43.08	E	O
	ATOM	7117	OD2	ASP	E	346	-29.099	38.937	82.689	1.00	44.74	E	O
	ATOM	7118	C	ASP	E	346	-24.695	40.177	81.359	1.00	32.10	E	C
	ATOM	7119	O	ASP	E	346	-24.120	40.855	82.198	1.00	31.71	E	O
	ATOM	7120	N	LYS	E	347	-24.104	39.205	80.678	1.00	32.64	E	N
60	ATOM	7121	CA	LYS	E	347	-22.702	38.862	80.854	1.00	34.01	E	C
	ATOM	7122	CB	LYS	E	347	-22.374	37.632	80.005	1.00	36.37	E	C
	ATOM	7123	CG	LYS	E	347	-21.069	36.944	80.358	1.00	41.40	E	C
	ATOM	7124	CD	LYS	E	347	-20.080	37.030	79.205	1.00	43.73	E	C
	ATOM	7125	CE	LYS	E	347	-19.910	35.689	78.516	1.00	45.32	E	C
65	ATOM	7126	NZ	LYS	E	347	-18.512	35.192	78.619	1.00	47.52	E	N
	ATOM	7127	C	LYS	E	347	-21.815	40.033	80.436	1.00	34.98	E	C
	ATOM	7128	O	LYS	E	347	-20.703	40.200	80.936	1.00	34.46	E	O
	ATOM	7129	N	LEU	E	348	-22.315	40.850	79.517	1.00	36.12	E	N
	ATOM	7130	CA	LEU	E	348	-21.556	41.997	79.034	1.00	35.42	E	C

	ATOM	7131	CB	LEU	E	348	-21.874	42.261	77.560	1.00	34.90	E	C
	ATOM	7132	CG	LEU	E	348	-21.290	41.254	76.560	1.00	33.95	E	C
	ATOM	7133	CD1	LEU	E	348	-21.967	41.430	75.211	1.00	32.60	E	C
	ATOM	7134	CD2	LEU	E	348	-19.784	41.444	76.440	1.00	28.48	E	C
5	ATOM	7135	C	LEU	E	348	-21.851	43.241	79.852	1.00	36.04	E	C
	ATOM	7136	O	LEU	E	348	-21.156	44.246	79.730	1.00	36.05	E	O
	ATOM	7137	N	LYS	E	349	-22.890	43.170	80.679	1.00	38.09	E	N
	ATOM	7138	CA	LYS	E	349	-23.281	44.289	81.533	1.00	37.29	E	C
	ATOM	7139	CB	LYS	E	349	-22.064	44.785	82.327	1.00	40.99	E	C
10	ATOM	7140	CG	LYS	E	349	-22.340	45.967	83.253	1.00	48.84	E	C
	ATOM	7141	CD	LYS	E	349	-21.568	47.225	82.821	1.00	52.75	E	C
	ATOM	7142	CE	LYS	E	349	-22.456	48.474	82.854	1.00	54.80	E	C
	ATOM	7143	NZ	LYS	E	349	-23.350	48.514	84.058	1.00	56.28	E	N
	ATOM	7144	C	LYS	E	349	-23.903	45.443	80.743	1.00	35.16	E	C
15	ATOM	7145	O	LYS	E	349	-23.549	46.605	80.932	1.00	34.71	E	O
	ATOM	7146	N	LEU	E	350	-24.839	45.125	79.855	1.00	33.66	E	N
	ATOM	7147	CA	LEU	E	350	-25.488	46.166	79.070	1.00	31.32	E	C
	ATOM	7148	CB	LEU	E	350	-24.736	46.414	77.754	1.00	32.09	E	C
	ATOM	7149	CG	LEU	E	350	-23.263	46.038	77.610	1.00	33.37	E	C
20	ATOM	7150	CD1	LEU	E	350	-23.024	45.435	76.233	1.00	32.43	E	C
	ATOM	7151	CD2	LEU	E	350	-22.402	47.279	77.808	1.00	32.13	E	C
	ATOM	7152	C	LEU	E	350	-26.920	45.827	78.727	1.00	29.74	E	C
	ATOM	7153	O	LEU	E	350	-27.301	44.661	78.686	1.00	30.86	E	O
	ATOM	7154	N	HIS	E	351	-27.720	46.863	78.507	1.00	30.20	E	N
25	ATOM	7155	CA	HIS	E	351	-29.091	46.666	78.081	1.00	33.64	E	C
	ATOM	7156	CB	HIS	E	351	-30.111	47.228	79.066	1.00	35.43	E	C
	ATOM	7157	CG	HIS	E	351	-31.521	46.857	78.719	1.00	41.36	E	C
	ATOM	7158	CD2	HIS	E	351	-32.358	47.337	77.767	1.00	42.81	E	C
	ATOM	7159	ND1	HIS	E	351	-32.194	45.820	79.330	1.00	41.80	E	N
30	ATOM	7160	CE1	HIS	E	351	-33.383	45.676	78.771	1.00	42.52	E	C
	ATOM	7161	NE2	HIS	E	351	-33.507	46.586	77.819	1.00	43.65	E	N
	ATOM	7162	C	HIS	E	351	-29.223	47.393	76.751	1.00	33.35	E	C
	ATOM	7163	O	HIS	E	351	-29.137	48.618	76.685	1.00	31.65	E	O
	ATOM	7164	N	PRO	E	352	-29.406	46.635	75.667	1.00	33.00	E	N
35	ATOM	7165	CD	PRO	E	352	-29.479	45.166	75.646	1.00	33.14	E	C
	ATOM	7166	CA	PRO	E	352	-29.543	47.203	74.328	1.00	34.20	E	C
	ATOM	7167	CB	PRO	E	352	-30.278	46.112	73.542	1.00	34.92	E	C
	ATOM	7168	CG	PRO	E	352	-30.328	44.894	74.456	1.00	34.49	E	C
	ATOM	7169	C	PRO	E	352	-30.269	48.547	74.256	1.00	33.90	E	C
40	ATOM	7170	O	PRO	E	352	-29.785	49.476	73.611	1.00	34.86	E	O
	ATOM	7171	N	TYR	E	353	-31.413	48.657	74.926	1.00	32.70	E	N
	ATOM	7172	CA	TYR	E	353	-32.203	49.886	74.882	1.00	32.69	E	C
	ATOM	7173	CB	TYR	E	353	-33.534	49.672	75.609	1.00	32.89	E	C
	ATOM	7174	CG	TYR	E	353	-34.402	48.612	74.961	1.00	33.18	E	C
45	ATOM	7175	CD1	TYR	E	353	-34.063	48.067	73.718	1.00	32.73	E	C
	ATOM	7176	CE1	TYR	E	353	-34.838	47.077	73.124	1.00	32.46	E	C
	ATOM	7177	CD2	TYR	E	353	-35.547	48.137	75.595	1.00	33.68	E	C
	ATOM	7178	CE2	TYR	E	353	-36.335	47.141	75.010	1.00	35.69	E	C
	ATOM	7179	CZ	TYR	E	353	-35.974	46.615	73.776	1.00	35.02	E	C
50	ATOM	7180	OH	TYR	E	353	-36.741	45.624	73.198	1.00	36.30	E	O
	ATOM	7181	C	TYR	E	353	-31.519	51.150	75.393	1.00	31.48	E	C
	ATOM	7182	O	TYR	E	353	-31.956	52.262	75.082	1.00	30.47	E	O
	ATOM	7183	N	ASP	E	354	-30.448	50.988	76.164	1.00	31.65	E	N
	ATOM	7184	CA	ASP	E	354	-29.706	52.139	76.683	1.00	29.56	E	C
55	ATOM	7185	CB	ASP	E	354	-29.130	51.838	78.069	1.00	30.15	E	C
	ATOM	7186	CG	ASP	E	354	-30.203	51.599	79.106	1.00	32.88	E	C
	ATOM	7187	OD1	ASP	E	354	-31.221	52.326	79.087	1.00	31.78	E	O
	ATOM	7188	OD2	ASP	E	354	-30.027	50.682	79.936	1.00	34.21	E	O
	ATOM	7189	C	ASP	E	354	-28.564	52.485	75.739	1.00	26.22	E	C
60	ATOM	7190	O	ASP	E	354	-27.894	53.503	75.911	1.00	27.33	E	O
	ATOM	7191	N	LEU	E	355	-28.343	51.626	74.747	1.00	24.22	E	N
	ATOM	7192	CA	LEU	E	355	-27.277	51.841	73.785	1.00	21.95	E	C
	ATOM	7193	CB	LEU	E	355	-27.178	50.658	72.830	1.00	21.82	E	C
	ATOM	7194	CG	LEU	E	355	-26.441	49.465	73.453	1.00	22.23	E	C
65	ATOM	7195	CD1	LEU	E	355	-26.249	48.389	72.407	1.00	22.04	E	C
	ATOM	7196	CD2	LEU	E	355	-25.096	49.908	74.015	1.00	18.78	E	C
	ATOM	7197	C	LEU	E	355	-27.462	53.139	73.018	1.00	21.12	E	C
	ATOM	7198	O	LEU	E	355	-28.581	53.628	72.835	1.00	20.14	E	O

	ATOM	7199	N	THR	E	356	-26.339	53.682	72.568	1.00	18.55	E	N
	ATOM	7200	CA	THR	E	356	-26.293	54.950	71.862	1.00	17.94	E	C
	ATOM	7201	CB	THR	E	356	-25.978	56.036	72.903	1.00	18.62	E	C
	ATOM	7202	OG1	THR	E	356	-27.200	56.585	73.399	1.00	19.89	E	O
5	ATOM	7203	CG2	THR	E	356	-25.116	57.112	72.338	1.00	20.48	E	C
	ATOM	7204	C	THR	E	356	-25.162	54.827	70.835	1.00	18.73	E	C
	ATOM	7205	O	THR	E	356	-24.393	53.869	70.901	1.00	21.45	E	O
	ATOM	7206	N	VAL	E	357	-25.043	55.742	69.873	1.00	16.87	E	N
	ATOM	7207	CA	VAL	E	357	-23.918	55.603	68.950	1.00	16.13	E	C
10	ATOM	7208	CB	VAL	E	357	-23.983	56.566	67.708	1.00	15.62	E	C
	ATOM	7209	CG1	VAL	E	357	-25.361	56.492	67.057	1.00	11.53	E	C
	ATOM	7210	CG2	VAL	E	357	-23.621	57.976	68.100	1.00	15.64	E	C
	ATOM	7211	C	VAL	E	357	-22.639	55.865	69.750	1.00	15.59	E	C
	ATOM	7212	O	VAL	E	357	-21.577	55.359	69.408	1.00	15.47	E	O
15	ATOM	7213	N	ASP	E	358	-22.753	56.636	70.831	1.00	16.04	E	N
	ATOM	7214	CA	ASP	E	358	-21.606	56.931	71.690	1.00	16.24	E	C
	ATOM	7215	CB	ASP	E	358	-21.976	57.932	72.786	1.00	20.37	E	C
	ATOM	7216	CG	ASP	E	358	-22.214	59.330	72.259	1.00	24.67	E	C
	ATOM	7217	OD1	ASP	E	358	-21.646	59.683	71.196	1.00	25.93	E	O
20	ATOM	7218	OD2	ASP	E	358	-22.976	60.081	72.922	1.00	27.79	E	O
	ATOM	7219	C	ASP	E	358	-21.116	55.651	72.361	1.00	17.28	E	C
	ATOM	7220	O	ASP	E	358	-19.921	55.363	72.362	1.00	18.74	E	O
	ATOM	7221	N	SER	E	359	-22.044	54.890	72.942	1.00	18.28	E	N
	ATOM	7222	CA	SER	E	359	-21.699	53.640	73.622	1.00	17.51	E	C
25	ATOM	7223	CB	SER	E	359	-22.838	53.201	74.549	1.00	15.56	E	C
	ATOM	7224	OG	SER	E	359	-24.102	53.357	73.934	1.00	17.84	E	O
	ATOM	7225	C	SER	E	359	-21.382	52.523	72.628	1.00	18.55	E	C
	ATOM	7226	O	SER	E	359	-20.621	51.603	72.933	1.00	16.78	E	O
	ATOM	7227	N	LEU	E	360	-21.973	52.603	71.441	1.00	18.38	E	N
30	ATOM	7228	CA	LEU	E	360	-21.721	51.612	70.403	1.00	18.77	E	C
	ATOM	7229	CB	LEU	E	360	-22.634	51.862	69.208	1.00	19.60	E	C
	ATOM	7230	CG	LEU	E	360	-22.430	50.918	68.025	1.00	21.48	E	C
	ATOM	7231	CD1	LEU	E	360	-22.716	49.475	68.445	1.00	20.62	E	C
	ATOM	7232	CD2	LEU	E	360	-23.354	51.347	66.880	1.00	23.59	E	C
35	ATOM	7233	C	LEU	E	360	-20.255	51.706	69.972	1.00	18.84	E	C
	ATOM	7234	O	LEU	E	360	-19.647	50.710	69.596	1.00	19.18	E	O
	ATOM	7235	N	ASP	E	361	-19.716	52.922	70.020	1.00	19.28	E	N
	ATOM	7236	CA	ASP	E	361	-18.319	53.211	69.693	1.00	24.43	E	C
	ATOM	7237	CB	ASP	E	361	-17.445	52.888	70.922	1.00	25.19	E	C
40	ATOM	7238	CG	ASP	E	361	-16.287	53.858	71.101	1.00	27.16	E	C
	ATOM	7239	OD1	ASP	E	361	-16.317	54.956	70.504	1.00	34.15	E	O
	ATOM	7240	OD2	ASP	E	361	-15.344	53.522	71.842	1.00	26.97	E	O
	ATOM	7241	C	ASP	E	361	-17.723	52.524	68.450	1.00	24.95	E	C
	ATOM	7242	O	ASP	E	361	-16.604	52.007	68.513	1.00	26.89	E	O
45	ATOM	7243	N	VAL	E	362	-18.437	52.533	67.323	1.00	25.31	E	N
	ATOM	7244	CA	VAL	E	362	-17.913	51.901	66.115	1.00	24.37	E	C
	ATOM	7245	CB	VAL	E	362	-19.002	51.115	65.358	1.00	23.24	E	C
	ATOM	7246	CG1	VAL	E	362	-19.250	49.790	66.063	1.00	21.76	E	C
	ATOM	7247	CG2	VAL	E	362	-20.280	51.928	65.277	1.00	22.98	E	C
50	ATOM	7248	C	VAL	E	362	-17.275	52.910	65.164	1.00	24.76	E	C
	ATOM	7249	O	VAL	E	362	-16.577	52.530	64.222	1.00	26.61	E	O
	ATOM	7250	N	HIS	E	363	-17.508	54.192	65.423	1.00	24.55	E	N
	ATOM	7251	CA	HIS	E	363	-16.962	55.260	64.596	1.00	26.57	E	C
	ATOM	7252	CB	HIS	E	363	-17.760	56.541	64.814	1.00	25.53	E	C
55	ATOM	7253	CG	HIS	E	363	-17.831	57.429	63.615	1.00	28.45	E	C
	ATOM	7254	CD2	HIS	E	363	-18.618	57.378	62.514	1.00	28.81	E	C
	ATOM	7255	ND1	HIS	E	363	-17.036	58.547	63.471	1.00	29.44	E	N
	ATOM	7256	CE1	HIS	E	363	-17.330	59.146	62.331	1.00	28.77	E	C
	ATOM	7257	NE2	HIS	E	363	-18.287	58.457	61.733	1.00	30.33	E	N
60	ATOM	7258	C	HIS	E	363	-15.502	55.520	64.940	1.00	28.48	E	C
	ATOM	7259	O	HIS	E	363	-15.132	55.569	66.117	1.00	30.25	E	O
	ATOM	7260	N	ALA	E	364	-14.674	55.675	63.913	1.00	29.72	E	N
	ATOM	7261	CA	ALA	E	364	-13.252	55.931	64.112	1.00	34.28	E	C
	ATOM	7262	CB	ALA	E	364	-12.484	55.679	62.821	1.00	33.94	E	C
65	ATOM	7263	C	ALA	E	364	-13.081	57.373	64.552	1.00	36.73	E	C
	ATOM	7264	O	ALA	E	364	-13.648	58.286	63.947	1.00	38.90	E	O
	ATOM	7265	N	GLY	E	365	-12.293	57.592	65.598	1.00	40.30	E	N
	ATOM	7266	CA	GLY	E	365	-12.120	58.956	66.087	1.00	42.58	E	C

	ATOM	7267	C	GLY	E	365	-10.859	59.591	65.547	1.00	42.35	E	C
	ATOM	7268	O	GLY	E	365	-10.543	59.395	64.379	1.00	46.17	E	O
	ATOM	7269	N	ARG	E	366	-10.158	60.382	66.376	1.00	41.41	E	N
	ATOM	7270	CA	ARG	E	366	-8.891	61.001	65.968	1.00	41.40	E	C
5	ATOM	7271	CB	ARG	E	366	-8.499	62.170	66.863	1.00	40.45	E	C
	ATOM	7272	CG	ARG	E	366	-9.656	62.880	67.468	1.00	40.49	E	C
	ATOM	7273	CD	ARG	E	366	-9.669	64.304	66.978	1.00	38.20	E	C
	ATOM	7274	NE	ARG	E	366	-10.511	65.082	67.867	1.00	36.14	E	N
	ATOM	7275	CZ	ARG	E	366	-10.186	65.373	69.121	1.00	38.39	E	C
10	ATOM	7276	NH1	ARG	E	366	-9.027	64.948	69.633	1.00	39.88	E	N
	ATOM	7277	NH2	ARG	E	366	-11.033	66.072	69.870	1.00	41.95	E	N
	ATOM	7278	C	ARG	E	366	-7.834	59.918	66.120	1.00	42.38	E	C
	ATOM	7279	O	ARG	E	366	-6.814	59.913	65.425	1.00	44.29	E	O
	ATOM	7280	N	GLN	E	367	-8.080	59.012	67.060	1.00	43.40	E	N
15	ATOM	7281	CA	GLN	E	367	-7.183	57.882	67.320	1.00	44.54	E	C
	ATOM	7282	CB	GLN	E	367	-7.510	57.246	68.689	1.00	47.48	E	C
	ATOM	7283	CG	GLN	E	367	-7.735	55.722	68.699	1.00	50.56	E	C
	ATOM	7284	CD	GLN	E	367	-9.212	55.343	68.907	1.00	53.01	E	C
	ATOM	7285	OE1	GLN	E	367	-10.023	56.157	69.364	1.00	55.49	E	O
20	ATOM	7286	NE2	GLN	E	367	-9.560	54.101	68.558	1.00	52.15	E	N
	ATOM	7287	C	GLN	E	367	-7.406	56.899	66.177	1.00	43.62	E	C
	ATOM	7288	O	GLN	E	367	-8.136	57.227	65.231	1.00	45.81	E	O
	ATOM	7289	N	THR	E	368	-6.810	55.707	66.244	1.00	39.32	E	N
	ATOM	7290	CA	THR	E	368	-6.944	54.722	65.158	1.00	38.04	E	C
25	ATOM	7291	CB	THR	E	368	-8.426	54.507	64.657	1.00	36.47	E	C
	ATOM	7292	OG1	THR	E	368	-8.778	55.537	63.711	1.00	32.16	E	O
	ATOM	7293	CG2	THR	E	368	-9.427	54.496	65.847	1.00	37.91	E	C
	ATOM	7294	C	THR	E	368	-6.142	55.247	63.957	1.00	35.34	E	C
	ATOM	7295	O	THR	E	368	-5.737	54.483	63.064	1.00	32.08	E	O
30	ATOM	7296	N	PHE	E	369	-5.951	56.564	63.934	1.00	32.08	E	N
	ATOM	7297	CA	PHE	E	369	-5.180	57.214	62.896	1.00	32.31	E	C
	ATOM	7298	CB	PHE	E	369	-5.188	58.732	63.101	1.00	29.97	E	C
	ATOM	7299	CG	PHE	E	369	-4.396	59.468	62.074	1.00	30.74	E	C
	ATOM	7300	CD1	PHE	E	369	-4.927	59.719	60.809	1.00	32.40	E	C
35	ATOM	7301	CD2	PHE	E	369	-3.084	59.843	62.342	1.00	31.35	E	C
	ATOM	7302	CE1	PHE	E	369	-4.155	60.329	59.818	1.00	32.87	E	C
	ATOM	7303	CE2	PHE	E	369	-2.302	60.453	61.359	1.00	33.42	E	C
	ATOM	7304	CZ	PHE	E	369	-2.837	60.697	60.097	1.00	32.83	E	C
	ATOM	7305	C	PHE	E	369	-3.775	56.658	63.051	1.00	33.10	E	C
40	ATOM	7306	O	PHE	E	369	-3.113	56.924	64.060	1.00	32.78	E	O
	ATOM	7307	N	GLN	E	370	-3.331	55.881	62.063	1.00	34.84	E	N
	ATOM	7308	CA	GLN	E	370	-2.018	55.252	62.122	1.00	33.40	E	C
	ATOM	7309	CB	GLN	E	370	-0.913	56.307	62.124	1.00	32.16	E	C
	ATOM	7310	CG	GLN	E	370	-0.418	56.586	60.720	1.00	33.37	E	C
45	ATOM	7311	CD	GLN	E	370	0.325	57.898	60.602	1.00	34.90	E	C
	ATOM	7312	OE1	GLN	E	370	0.115	58.826	61.398	1.00	37.50	E	O
	ATOM	7313	NE2	GLN	E	370	1.202	57.989	59.608	1.00	33.39	E	N
	ATOM	7314	C	GLN	E	370	-1.968	54.372	63.369	1.00	33.81	E	C
	ATOM	7315	O	GLN	E	370	-0.940	54.254	64.038	1.00	35.69	E	O
50	ATOM	7316	N	ARG	E	371	-3.120	53.786	63.688	1.00	33.45	E	N
	ATOM	7317	CA	ARG	E	371	-3.263	52.846	64.799	1.00	32.46	E	C
	ATOM	7318	CB	ARG	E	371	-3.974	53.481	66.015	1.00	30.24	E	C
	ATOM	7319	CG	ARG	E	371	-3.141	54.518	66.795	1.00	33.27	E	C
	ATOM	7320	CD	ARG	E	371	-2.159	53.917	67.819	1.00	33.62	E	C
55	ATOM	7321	NE	ARG	E	371	-2.489	52.558	68.270	1.00	33.83	E	N
	ATOM	7322	CZ	ARG	E	371	-2.961	52.258	69.486	1.00	33.46	E	C
	ATOM	7323	NH1	ARG	E	371	-3.172	53.221	70.383	1.00	31.48	E	N
	ATOM	7324	NH2	ARG	E	371	-3.186	50.990	69.828	1.00	29.84	E	N
	ATOM	7325	C	ARG	E	371	-4.164	51.792	64.162	1.00	31.64	E	C
60	ATOM	7326	O	ARG	E	371	-5.366	51.751	64.428	1.00	30.41	E	O
	ATOM	7327	N	PHE	E	372	-3.594	50.965	63.285	1.00	29.99	E	N
	ATOM	7328	CA	PHE	E	372	-4.418	49.954	62.629	1.00	31.06	E	C
	ATOM	7329	CB	PHE	E	372	-3.603	49.123	61.642	1.00	29.56	E	C
	ATOM	7330	CG	PHE	E	372	-4.434	48.554	60.523	1.00	29.94	E	C
65	ATOM	7331	CD1	PHE	E	372	-4.736	49.334	59.401	1.00	28.50	E	C
	ATOM	7332	CD2	PHE	E	372	-4.931	47.257	60.595	1.00	26.16	E	C
	ATOM	7333	CE1	PHE	E	372	-5.527	48.827	58.371	1.00	27.10	E	C
	ATOM	7334	CE2	PHE	E	372	-5.721	46.738	59.576	1.00	27.19	E	C

	ATOM	7335	CZ	PHE	E	372	-6.025	47.525	58.459	1.00	26.91	E	C
	ATOM	7336	C	PHE	E	372	-5.051	49.047	63.666	1.00	31.50	E	C
	ATOM	7337	O	PHE	E	372	-6.213	48.669	63.551	1.00	32.64	E	O
	ATOM	7338	N	ASP	E	373	-4.275	48.703	64.685	1.00	32.84	E	N
5	ATOM	7339	CA	ASP	E	373	-4.736	47.856	65.778	1.00	33.71	E	C
	ATOM	7340	CB	ASP	E	373	-3.717	47.927	66.902	1.00	35.50	E	C
	ATOM	7341	CG	ASP	E	373	-3.360	49.360	67.231	1.00	39.04	E	C
	ATOM	7342	OD1	ASP	E	373	-4.114	49.967	68.026	1.00	44.67	E	O
10	ATOM	7343	OD2	ASP	E	373	-2.362	49.886	66.679	1.00	39.85	E	O
	ATOM	7344	C	ASP	E	373	-6.090	48.356	66.301	1.00	33.87	E	C
	ATOM	7345	O	ASP	E	373	-7.014	47.564	66.539	1.00	33.10	E	O
	ATOM	7346	N	LYS	E	374	-6.194	49.675	66.487	1.00	32.72	E	N
	ATOM	7347	CA	LYS	E	374	-7.426	50.290	66.994	1.00	33.12	E	C
	ATOM	7348	CB	LYS	E	374	-7.168	51.729	67.456	1.00	34.58	E	C
15	ATOM	7349	CG	LYS	E	374	-6.452	51.833	68.800	1.00	37.96	E	C
	ATOM	7350	CD	LYS	E	374	-7.164	52.801	69.741	1.00	37.52	E	C
	ATOM	7351	CE	LYS	E	374	-6.464	52.856	71.090	1.00	40.28	E	C
	ATOM	7352	NZ	LYS	E	374	-6.002	54.246	71.418	1.00	42.39	E	N
	ATOM	7353	C	LYS	E	374	-8.511	50.300	65.927	1.00	32.91	E	C
20	ATOM	7354	O	LYS	E	374	-9.707	50.272	66.235	1.00	33.38	E	O
	ATOM	7355	N	PHE	E	375	-8.092	50.349	64.667	1.00	33.55	E	N
	ATOM	7356	CA	PHE	E	375	-9.051	50.353	63.568	1.00	32.20	E	C
	ATOM	7357	CB	PHE	E	375	-8.344	50.607	62.234	1.00	29.17	E	C
	ATOM	7358	CG	PHE	E	375	-9.155	50.190	61.044	1.00	29.02	E	C
25	ATOM	7359	CD1	PHE	E	375	-10.316	50.883	60.709	1.00	27.40	E	C
	ATOM	7360	CD2	PHE	E	375	-8.810	49.060	60.310	1.00	28.24	E	C
	ATOM	7361	CE1	PHE	E	375	-11.131	50.456	59.669	1.00	24.05	E	C
	ATOM	7362	CE2	PHE	E	375	-9.619	48.620	59.264	1.00	26.43	E	C
	ATOM	7363	CZ	PHE	E	375	-10.785	49.319	58.947	1.00	28.96	E	C
30	ATOM	7364	C	PHE	E	375	-9.786	49.004	63.516	1.00	30.28	E	C
	ATOM	7365	O	PHE	E	375	-11.018	48.952	63.432	1.00	27.35	E	O
	ATOM	7366	N	ASN	E	376	-9.023	47.915	63.564	1.00	30.64	E	N
	ATOM	7367	CA	ASN	E	376	-9.619	46.578	63.519	1.00	34.18	E	C
	ATOM	7368	CB	ASN	E	376	-8.531	45.504	63.375	1.00	34.63	E	C
35	ATOM	7369	CG	ASN	E	376	-8.562	44.817	62.008	1.00	39.81	E	C
	ATOM	7370	OD1	ASN	E	376	-9.545	44.145	61.644	1.00	42.53	E	O
	ATOM	7371	ND2	ASN	E	376	-7.485	44.980	61.243	1.00	41.15	E	N
	ATOM	7372	C	ASN	E	376	-10.453	46.289	64.770	1.00	36.67	E	C
	ATOM	7373	O	ASN	E	376	-11.376	45.469	64.739	1.00	37.46	E	O
40	ATOM	7374	N	ASP	E	377	-10.142	46.968	65.873	1.00	37.52	E	N
	ATOM	7375	CA	ASP	E	377	-10.895	46.725	67.092	1.00	39.36	E	C
	ATOM	7376	CB	ASP	E	377	-9.993	46.914	68.317	1.00	39.70	E	C
	ATOM	7377	CG	ASP	E	377	-9.521	45.576	68.870	1.00	44.65	E	C
	ATOM	7378	OD1	ASP	E	377	-9.406	44.605	68.068	1.00	44.95	E	O
45	ATOM	7379	OD2	ASP	E	377	-9.268	45.474	70.093	1.00	49.23	E	O
	ATOM	7380	C	ASP	E	377	-12.150	47.581	67.153	1.00	43.33	E	C
	ATOM	7381	O	ASP	E	377	-12.961	47.491	68.085	1.00	40.95	E	O
	ATOM	7382	N	LYS	E	378	-12.331	48.397	66.122	1.00	45.74	E	N
	ATOM	7383	CA	LYS	E	378	-13.520	49.232	66.023	1.00	47.05	E	C
50	ATOM	7384	CB	LYS	E	378	-13.280	50.376	65.032	1.00	48.79	E	C
	ATOM	7385	CG	LYS	E	378	-13.829	51.727	65.480	1.00	51.59	E	C
	ATOM	7386	CD	LYS	E	378	-12.875	52.431	66.448	1.00	54.06	E	C
	ATOM	7387	CE	LYS	E	378	-13.615	53.042	67.627	1.00	55.27	E	C
	ATOM	7388	NZ	LYS	E	378	-13.036	54.359	68.017	1.00	61.21	E	N
55	ATOM	7389	C	LYS	E	378	-14.686	48.365	65.549	1.00	48.29	E	C
	ATOM	7390	O	LYS	E	378	-15.847	48.746	65.701	1.00	47.60	E	O
	ATOM	7391	N	TYR	E	379	-14.379	47.197	64.977	1.00	48.69	E	N
	ATOM	7392	CA	TYR	E	379	-15.421	46.300	64.484	1.00	47.83	E	C
	ATOM	7393	CB	TYR	E	379	-14.825	45.217	63.562	1.00	52.04	E	C
60	ATOM	7394	CG	TYR	E	379	-14.459	45.696	62.172	1.00	57.15	E	C
	ATOM	7395	CD1	TYR	E	379	-13.148	45.588	61.699	1.00	58.61	E	C
	ATOM	7396	CE1	TYR	E	379	-12.802	46.054	60.421	1.00	59.29	E	C
	ATOM	7397	CD2	TYR	E	379	-15.413	46.277	61.342	1.00	57.98	E	C
	ATOM	7398	CE2	TYR	E	379	-15.082	46.742	60.073	1.00	58.73	E	C
65	ATOM	7399	CZ	TYR	E	379	-13.781	46.629	59.617	1.00	58.44	E	C
	ATOM	7400	OH	TYR	E	379	-13.490	47.080	58.352	1.00	55.47	E	O
	ATOM	7401	C	TYR	E	379	-16.190	45.631	65.620	1.00	45.79	E	C
	ATOM	7402	O	TYR	E	379	-17.116	44.842	65.379	1.00	48.00	E	O

	ATOM	7403	N	ASN	E	380	-15.801	45.947	66.854	1.00	41.44	E	N
	ATOM	7404	CA	ASN	E	380	-16.439	45.398	68.045	1.00	34.63	E	C
	ATOM	7405	CB	ASN	E	380	-15.403	45.143	69.133	1.00	31.97	E	C
	ATOM	7406	CG	ASN	E	380	-14.339	44.165	68.693	1.00	29.74	E	C
5	ATOM	7407	OD1	ASN	E	380	-14.584	43.308	67.857	1.00	29.38	E	O
	ATOM	7408	ND2	ASN	E	380	-13.155	44.280	69.278	1.00	27.94	E	N
	ATOM	7409	C	ASN	E	380	-17.483	46.373	68.578	1.00	32.90	E	C
	ATOM	7410	O	ASN	E	380	-17.146	47.354	69.235	1.00	31.25	E	O
10	ATOM	7411	N	PRO	E	381	-18.770	46.119	68.279	1.00	29.21	E	N
	ATOM	7412	CD	PRO	E	381	-19.309	44.985	67.513	1.00	27.50	E	C
	ATOM	7413	CA	PRO	E	381	-19.824	47.013	68.767	1.00	27.40	E	C
	ATOM	7414	CB	PRO	E	381	-21.122	46.296	68.387	1.00	26.89	E	C
	ATOM	7415	CG	PRO	E	381	-20.738	45.345	67.295	1.00	26.03	E	C
15	ATOM	7416	C	PRO	E	381	-19.689	47.127	70.284	1.00	26.52	E	C
	ATOM	7417	O	PRO	E	381	-19.435	46.129	70.960	1.00	26.46	E	O
	ATOM	7418	N	VAL	E	382	-19.834	48.327	70.825	1.00	27.34	E	N
	ATOM	7419	CA	VAL	E	382	-19.733	48.540	72.269	1.00	28.72	E	C
	ATOM	7420	CB	VAL	E	382	-21.057	48.091	72.982	1.00	27.46	E	C
20	ATOM	7421	CG1	VAL	E	382	-21.016	46.626	73.311	1.00	33.12	E	C
	ATOM	7422	CG2	VAL	E	382	-21.276	48.898	74.244	1.00	28.17	E	C
	ATOM	7423	C	VAL	E	382	-18.506	47.873	72.920	1.00	26.79	E	C
	ATOM	7424	O	VAL	E	382	-18.534	47.496	74.094	1.00	26.51	E	O
	ATOM	7425	N	GLY	E	383	-17.432	47.736	72.144	1.00	24.54	E	N
25	ATOM	7426	CA	GLY	E	383	-16.199	47.156	72.646	1.00	20.38	E	C
	ATOM	7427	C	GLY	E	383	-16.131	45.658	72.867	1.00	22.37	E	C
	ATOM	7428	O	GLY	E	383	-15.084	45.146	73.257	1.00	24.89	E	O
	ATOM	7429	N	ALA	E	384	-17.222	44.944	72.615	1.00	22.22	E	N
	ATOM	7430	CA	ALA	E	384	-17.245	43.501	72.827	1.00	19.99	E	C
30	ATOM	7431	CB	ALA	E	384	-18.533	43.105	73.532	1.00	15.85	E	C
	ATOM	7432	C	ALA	E	384	-17.097	42.708	71.537	1.00	19.49	E	C
	ATOM	7433	O	ALA	E	384	-17.864	42.892	70.593	1.00	21.11	E	O
	ATOM	7434	N	SER	E	385	-16.117	41.815	71.506	1.00	20.15	E	N
	ATOM	7435	CA	SER	E	385	-15.887	40.982	70.338	1.00	21.28	E	C
35	ATOM	7436	CB	SER	E	385	-14.560	40.230	70.477	1.00	21.70	E	C
	ATOM	7437	OG	SER	E	385	-14.633	39.221	71.470	1.00	28.89	E	O
	ATOM	7438	C	SER	E	385	-17.027	39.988	70.163	1.00	22.63	E	C
	ATOM	7439	O	SER	E	385	-17.311	39.548	69.052	1.00	24.60	E	O
	ATOM	7440	N	GLU	E	386	-17.680	39.633	71.267	1.00	25.53	E	N
40	ATOM	7441	CA	GLU	E	386	-18.796	38.691	71.228	1.00	23.59	E	C
	ATOM	7442	CB	GLU	E	386	-19.346	38.446	72.636	1.00	24.69	E	C
	ATOM	7443	CG	GLU	E	386	-18.388	37.735	73.589	1.00	26.26	E	C
	ATOM	7444	CD	GLU	E	386	-17.538	38.696	74.405	1.00	27.41	E	C
	ATOM	7445	OE1	GLU	E	386	-16.732	38.220	75.231	1.00	28.35	E	O
45	ATOM	7446	OE2	GLU	E	386	-17.674	39.925	74.222	1.00	28.13	E	O
	ATOM	7447	C	GLU	E	386	-19.900	39.262	70.355	1.00	25.54	E	C
	ATOM	7448	O	GLU	E	386	-20.576	38.527	69.636	1.00	27.16	E	O
	ATOM	7449	N	LEU	E	387	-20.081	40.578	70.421	1.00	24.67	E	N
	ATOM	7450	CA	LEU	E	387	-21.113	41.242	69.629	1.00	24.72	E	C
50	ATOM	7451	CB	LEU	E	387	-21.344	42.653	70.155	1.00	23.79	E	C
	ATOM	7452	CG	LEU	E	387	-21.992	42.720	71.539	1.00	25.05	E	C
	ATOM	7453	CD1	LEU	E	387	-22.269	44.166	71.887	1.00	24.26	E	C
	ATOM	7454	CD2	LEU	E	387	-23.287	41.918	71.554	1.00	25.81	E	C
	ATOM	7455	C	LEU	E	387	-20.728	41.288	68.154	1.00	23.64	E	C
55	ATOM	7456	O	LEU	E	387	-21.580	41.207	67.275	1.00	23.30	E	O
	ATOM	7457	N	ARG	E	388	-19.436	41.414	67.890	1.00	22.30	E	N
	ATOM	7458	CA	ARG	E	388	-18.944	41.442	66.524	1.00	23.44	E	C
	ATOM	7459	CB	ARG	E	388	-17.453	41.777	66.504	1.00	25.77	E	C
	ATOM	7460	CG	ARG	E	388	-16.740	41.377	65.223	1.00	30.71	E	C
60	ATOM	7461	CD	ARG	E	388	-15.549	42.273	64.995	1.00	36.94	E	C
	ATOM	7462	NE	ARG	E	388	-14.842	41.953	63.752	1.00	45.20	E	N
	ATOM	7463	CZ	ARG	E	388	-13.577	42.301	63.515	1.00	47.98	E	C
	ATOM	7464	NH1	ARG	E	388	-12.883	42.974	64.429	1.00	50.81	E	N
	ATOM	7465	NH2	ARG	E	388	-13.007	41.984	62.362	1.00	50.47	E	N
65	ATOM	7466	C	ARG	E	388	-19.166	40.080	65.871	1.00	23.21	E	C
	ATOM	7467	O	ARG	E	388	-19.604	39.999	64.725	1.00	24.44	E	O
	ATOM	7468	N	ASP	E	389	-18.855	39.015	66.603	1.00	20.68	E	N
	ATOM	7469	CA	ASP	E	389	-19.024	37.659	66.095	1.00	19.85	E	C
	ATOM	7470	CB	ASP	E	389	-18.470	36.641	67.087	1.00	23.68	E	C

	ATOM	7471	CG	ASP	E	389	-16.980	36.754	67.268	1.00	28.43	E	C
	ATOM	7472	OD1	ASP	E	389	-16.424	35.952	68.049	1.00	30.11	E	O
	ATOM	7473	OD2	ASP	E	389	-16.368	37.644	66.635	1.00	33.70	E	O
	ATOM	7474	C	ASP	E	389	-20.483	37.324	65.865	1.00	19.29	E	C
5	ATOM	7475	O	ASP	E	389	-20.809	36.472	65.038	1.00	19.53	E	O
	ATOM	7476	N	LEU	E	390	-21.358	37.985	66.615	1.00	17.02	E	N
	ATOM	7477	CA	LEU	E	390	-22.784	37.727	66.520	1.00	17.20	E	C
	ATOM	7478	CB	LEU	E	390	-23.455	38.015	67.871	1.00	17.14	E	C
	ATOM	7479	CG	LEU	E	390	-24.990	37.971	67.933	1.00	19.67	E	C
10	ATOM	7480	CD1	LEU	E	390	-25.497	36.560	67.641	1.00	18.18	E	C
	ATOM	7481	CD2	LEU	E	390	-25.450	38.411	69.305	1.00	19.33	E	C
	ATOM	7482	C	LEU	E	390	-23.488	38.510	65.424	1.00	15.63	E	C
	ATOM	7483	O	LEU	E	390	-24.297	37.955	64.685	1.00	15.26	E	O
	ATOM	7484	N	TYR	E	391	-23.168	39.794	65.309	1.00	15.35	E	N
15	ATOM	7485	CA	TYR	E	391	-23.819	40.660	64.331	1.00	15.33	E	C
	ATOM	7486	CB	TYR	E	391	-24.152	42.010	64.983	1.00	15.47	E	C
	ATOM	7487	CG	TYR	E	391	-25.211	41.950	66.068	1.00	17.95	E	C
	ATOM	7488	CD1	TYR	E	391	-26.569	41.882	65.745	1.00	17.46	E	C
	ATOM	7489	CE1	TYR	E	391	-27.546	41.820	66.736	1.00	17.82	E	C
20	ATOM	7490	CD2	TYR	E	391	-24.856	41.959	67.418	1.00	18.11	E	C
	ATOM	7491	CE2	TYR	E	391	-25.828	41.897	68.421	1.00	18.89	E	C
	ATOM	7492	CZ	TYR	E	391	-27.168	41.826	68.073	1.00	18.72	E	C
	ATOM	7493	OH	TYR	E	391	-28.125	41.742	69.058	1.00	15.44	E	O
	ATOM	7494	C	TYR	E	391	-23.069	40.932	63.026	1.00	15.89	E	C
25	ATOM	7495	O	TYR	E	391	-23.687	41.323	62.030	1.00	11.87	E	O
	ATOM	7496	N	LEU	E	392	-21.753	40.733	63.017	1.00	14.05	E	N
	ATOM	7497	CA	LEU	E	392	-20.984	41.037	61.817	1.00	16.91	E	C
	ATOM	7498	CB	LEU	E	392	-20.110	42.274	62.059	1.00	15.38	E	C
	ATOM	7499	CG	LEU	E	392	-20.799	43.474	62.711	1.00	16.57	E	C
30	ATOM	7500	CD1	LEU	E	392	-19.761	44.488	63.126	1.00	16.62	E	C
	ATOM	7501	CD2	LEU	E	392	-21.792	44.089	61.752	1.00	13.05	E	C
	ATOM	7502	C	LEU	E	392	-20.118	39.927	61.253	1.00	17.85	E	C
	ATOM	7503	O	LEU	E	392	-19.118	40.200	60.588	1.00	19.84	E	O
	ATOM	7504	N	LYS	E	393	-20.496	38.681	61.504	1.00	17.67	E	N
35	ATOM	7505	CA	LYS	E	393	-19.734	37.552	60.993	1.00	19.50	E	C
	ATOM	7506	CB	LYS	E	393	-18.927	36.896	62.110	1.00	19.75	E	C
	ATOM	7507	CG	LYS	E	393	-17.776	37.753	62.588	1.00	21.05	E	C
	ATOM	7508	CD	LYS	E	393	-16.505	36.950	62.702	1.00	26.53	E	C
	ATOM	7509	CE	LYS	E	393	-15.424	37.740	63.416	1.00	28.73	E	C
40	ATOM	7510	NZ	LYS	E	393	-14.233	36.888	63.675	1.00	32.09	E	N
	ATOM	7511	C	LYS	E	393	-20.685	36.550	60.378	1.00	17.81	E	C
	ATOM	7512	O	LYS	E	393	-21.868	36.534	60.706	1.00	18.57	E	O
	ATOM	7513	N	THR	E	394	-20.172	35.719	59.480	1.00	17.73	E	N
	ATOM	7514	CA	THR	E	394	-21.014	34.737	58.821	1.00	19.92	E	C
45	ATOM	7515	CB	THR	E	394	-20.590	34.551	57.330	1.00	18.35	E	C
	ATOM	7516	OG1	THR	E	394	-19.253	34.035	57.259	1.00	14.27	E	O
	ATOM	7517	CG2	THR	E	394	-20.648	35.879	56.600	1.00	11.47	E	C
	ATOM	7518	C	THR	E	394	-21.025	33.387	59.544	1.00	22.07	E	C
	ATOM	7519	O	THR	E	394	-21.994	32.628	59.447	1.00	21.54	E	O
50	ATOM	7520	N	ASP	E	395	-19.959	33.097	60.281	1.00	20.04	E	N
	ATOM	7521	CA	ASP	E	395	-19.881	31.839	60.998	1.00	24.78	E	C
	ATOM	7522	CB	ASP	E	395	-18.576	31.115	60.659	1.00	28.67	E	C
	ATOM	7523	CG	ASP	E	395	-18.569	29.668	61.135	1.00	34.32	E	C
	ATOM	7524	OD1	ASP	E	395	-19.661	29.054	61.210	1.00	36.33	E	O
55	ATOM	7525	OD2	ASP	E	395	-17.469	29.148	61.434	1.00	36.05	E	O
	ATOM	7526	C	ASP	E	395	-19.979	32.024	62.503	1.00	24.10	E	C
	ATOM	7527	O	ASP	E	395	-19.072	32.557	63.131	1.00	23.72	E	O
	ATOM	7528	N	ASN	E	396	-21.091	31.583	63.079	1.00	25.29	E	N
	ATOM	7529	CA	ASN	E	396	-21.292	31.681	64.516	1.00	23.27	E	C
60	ATOM	7530	CB	ASN	E	396	-21.652	33.114	64.920	1.00	21.37	E	C
	ATOM	7531	CG	ASN	E	396	-22.963	33.577	64.341	1.00	19.77	E	C
	ATOM	7532	OD1	ASN	E	396	-23.229	34.776	64.288	1.00	24.36	E	O
	ATOM	7533	ND2	ASN	E	396	-23.792	32.639	63.903	1.00	19.31	E	N
	ATOM	7534	C	ASN	E	396	-22.382	30.720	64.956	1.00	25.38	E	C
65	ATOM	7535	O	ASN	E	396	-22.879	29.929	64.153	1.00	24.27	E	O
	ATOM	7536	N	TYR	E	397	-22.759	30.803	66.229	1.00	25.47	E	N
	ATOM	7537	CA	TYR	E	397	-23.775	29.923	66.773	1.00	24.85	E	C
	ATOM	7538	CB	TYR	E	397	-24.116	30.314	68.207	1.00	26.51	E	C

	ATOM	7539	CG	TYR	E	397	-24.917	29.247	68.906	1.00	26.74	E	C
	ATOM	7540	CD1	TYR	E	397	-26.310	29.323	68.976	1.00	25.58	E	C
	ATOM	7541	CE1	TYR	E	397	-27.056	28.318	69.581	1.00	27.54	E	C
5	ATOM	7542	CD2	TYR	E	397	-24.285	28.137	69.463	1.00	29.15	E	C
	ATOM	7543	CE2	TYR	E	397	-25.022	27.123	70.073	1.00	31.77	E	C
	ATOM	7544	CZ	TYR	E	397	-26.407	27.221	70.126	1.00	32.32	E	C
	ATOM	7545	OH	TYR	E	397	-27.138	26.217	70.725	1.00	37.96	E	O
	ATOM	7546	C	TYR	E	397	-25.052	29.888	65.950	1.00	24.04	E	C
10	ATOM	7547	O	TYR	E	397	-25.673	28.833	65.817	1.00	25.46	E	O
	ATOM	7548	N	ILE	E	398	-25.449	31.031	65.403	1.00	23.01	E	N
	ATOM	7549	CA	ILE	E	398	-26.666	31.082	64.600	1.00	21.31	E	C
	ATOM	7550	CB	ILE	E	398	-27.558	32.275	65.002	1.00	20.70	E	C
	ATOM	7551	CG2	ILE	E	398	-28.110	32.052	66.393	1.00	23.92	E	C
	ATOM	7552	CG1	ILE	E	398	-26.758	33.575	64.996	1.00	20.91	E	C
15	ATOM	7553	CD1	ILE	E	398	-27.638	34.803	65.037	1.00	19.67	E	C
	ATOM	7554	C	ILE	E	398	-26.382	31.141	63.104	1.00	21.82	E	C
	ATOM	7555	O	ILE	E	398	-27.215	31.587	62.321	1.00	21.07	E	O
	ATOM	7556	N	ASN	E	399	-25.197	30.685	62.711	1.00	23.35	E	N
	ATOM	7557	CA	ASN	E	399	-24.804	30.666	61.307	1.00	22.51	E	C
20	ATOM	7558	CB	ASN	E	399	-25.684	29.676	60.549	1.00	24.45	E	C
	ATOM	7559	CG	ASN	E	399	-25.681	28.291	61.177	1.00	28.63	E	C
	ATOM	7560	OD1	ASN	E	399	-24.621	27.716	61.431	1.00	28.79	E	O
	ATOM	7561	ND2	ASN	E	399	-26.870	27.748	61.428	1.00	27.35	E	N
	ATOM	7562	C	ASN	E	399	-24.866	32.035	60.625	1.00	22.91	E	C
25	ATOM	7563	O	ASN	E	399	-25.431	32.166	59.542	1.00	25.00	E	O
	ATOM	7564	N	GLY	E	400	-24.288	33.049	61.261	1.00	21.48	E	N
	ATOM	7565	CA	GLY	E	400	-24.277	34.386	60.693	1.00	18.50	E	C
	ATOM	7566	C	GLY	E	400	-25.602	34.886	60.149	1.00	19.26	E	C
	ATOM	7567	O	GLY	E	400	-25.632	35.676	59.208	1.00	18.66	E	O
30	ATOM	7568	N	GLU	E	401	-26.702	34.448	60.743	1.00	18.19	E	N
	ATOM	7569	CA	GLU	E	401	-28.018	34.867	60.289	1.00	19.96	E	C
	ATOM	7570	CB	GLU	E	401	-29.092	34.083	61.031	1.00	20.31	E	C
	ATOM	7571	CG	GLU	E	401	-30.467	34.672	60.869	1.00	26.61	E	C
	ATOM	7572	CD	GLU	E	401	-31.522	33.856	61.580	1.00	31.69	E	C
35	ATOM	7573	OE1	GLU	E	401	-31.458	32.604	61.481	1.00	30.51	E	O
	ATOM	7574	OE2	GLU	E	401	-32.404	34.469	62.231	1.00	30.19	E	O
	ATOM	7575	C	GLU	E	401	-28.282	36.368	60.450	1.00	21.50	E	C
	ATOM	7576	O	GLU	E	401	-28.947	36.985	59.614	1.00	21.08	E	O
	ATOM	7577	N	TYR	E	402	-27.770	36.951	61.528	1.00	21.66	E	N
40	ATOM	7578	CA	TYR	E	402	-27.959	38.376	61.799	1.00	20.04	E	C
	ATOM	7579	CB	TYR	E	402	-27.461	38.706	63.208	1.00	22.68	E	C
	ATOM	7580	CG	TYR	E	402	-28.430	38.361	64.328	1.00	23.39	E	C
	ATOM	7581	CD1	TYR	E	402	-29.676	37.800	64.058	1.00	22.54	E	C
	ATOM	7582	CE1	TYR	E	402	-30.581	37.530	65.084	1.00	25.16	E	C
45	ATOM	7583	CD2	TYR	E	402	-28.109	38.637	65.659	1.00	21.96	E	C
	ATOM	7584	CE2	TYR	E	402	-29.006	38.371	66.690	1.00	21.83	E	C
	ATOM	7585	CZ	TYR	E	402	-30.242	37.821	66.398	1.00	23.42	E	C
	ATOM	7586	OH	TYR	E	402	-31.152	37.590	67.407	1.00	17.75	E	O
	ATOM	7587	C	TYR	E	402	-27.232	39.253	60.781	1.00	17.85	E	C
50	ATOM	7588	O	TYR	E	402	-27.758	40.268	60.341	1.00	17.61	E	O
	ATOM	7589	N	PHE	E	403	-26.017	38.855	60.423	1.00	16.98	E	N
	ATOM	7590	CA	PHE	E	403	-25.207	39.581	59.450	1.00	17.62	E	C
	ATOM	7591	CB	PHE	E	403	-23.844	38.905	59.308	1.00	17.22	E	C
	ATOM	7592	CG	PHE	E	403	-22.841	39.705	58.535	1.00	17.31	E	C
55	ATOM	7593	CD1	PHE	E	403	-22.902	41.094	58.517	1.00	17.14	E	C
	ATOM	7594	CD2	PHE	E	403	-21.822	39.066	57.833	1.00	15.60	E	C
	ATOM	7595	CE1	PHE	E	403	-21.960	41.835	57.812	1.00	17.20	E	C
	ATOM	7596	CE2	PHE	E	403	-20.878	39.796	57.126	1.00	14.37	E	C
	ATOM	7597	CZ	PHE	E	403	-20.945	41.182	57.113	1.00	17.00	E	C
60	ATOM	7598	C	PHE	E	403	-25.924	39.569	58.110	1.00	17.09	E	C
	ATOM	7599	O	PHE	E	403	-25.976	40.577	57.413	1.00	18.53	E	O
	ATOM	7600	N	ALA	E	404	-26.475	38.415	57.755	1.00	18.16	E	N
	ATOM	7601	CA	ALA	E	404	-27.208	38.269	56.505	1.00	18.24	E	C
	ATOM	7602	CB	ALA	E	404	-27.678	36.829	56.337	1.00	17.38	E	C
65	ATOM	7603	C	ALA	E	404	-28.405	39.208	56.487	1.00	18.07	E	C
	ATOM	7604	O	ALA	E	404	-28.646	39.902	55.504	1.00	21.26	E	O
	ATOM	7605	N	THR	E	405	-29.150	39.242	57.583	1.00	18.57	E	N
	ATOM	7606	CA	THR	E	405	-30.321	40.100	57.657	1.00	18.12	E	C

	ATOM	7607	CB	THR	E	405	-31.081	39.888	58.976	1.00	15.79	E	C
	ATOM	7608	OG1	THR	E	405	-31.343	38.490	59.146	1.00	15.69	E	C
	ATOM	7609	CG2	THR	E	405	-32.401	40.636	58.957	1.00	7.68	E	C
	ATOM	7610	C	THR	E	405	-29.984	41.575	57.503	1.00	19.25	E	C
5	ATOM	7611	O	THR	E	405	-30.708	42.311	56.829	1.00	22.15	E	O
	ATOM	7612	N	ILE	E	406	-28.892	42.012	58.124	1.00	21.49	E	N
	ATOM	7613	CA	ILE	E	406	-28.474	43.413	58.032	1.00	21.79	E	C
	ATOM	7614	CB	ILE	E	406	-27.226	43.707	58.895	1.00	20.75	E	C
10	ATOM	7615	CG2	ILE	E	406	-26.780	45.153	58.688	1.00	20.67	E	C
	ATOM	7616	CG1	ILE	E	406	-27.542	43.468	60.375	1.00	20.67	E	C
	ATOM	7617	CD1	ILE	E	406	-26.327	43.513	61.287	1.00	15.57	E	C
	ATOM	7618	C	ILE	E	406	-28.119	43.719	56.588	1.00	23.24	E	C
	ATOM	7619	O	ILE	E	406	-28.605	44.695	56.005	1.00	23.48	E	O
	ATOM	7620	N	ILE	E	407	-27.273	42.862	56.018	1.00	22.40	E	N
15	ATOM	7621	CA	ILE	E	407	-26.820	43.005	54.639	1.00	18.62	E	C
	ATOM	7622	CB	ILE	E	407	-25.880	41.857	54.252	1.00	16.69	E	C
	ATOM	7623	CG2	ILE	E	407	-25.957	41.595	52.763	1.00	16.72	E	C
	ATOM	7624	CG1	ILE	E	407	-24.450	42.214	54.656	1.00	14.90	E	C
	ATOM	7625	CD1	ILE	E	407	-23.513	41.042	54.663	1.00	15.29	E	C
20	ATOM	7626	C	ILE	E	407	-27.974	43.059	53.652	1.00	20.43	E	C
	ATOM	7627	O	ILE	E	407	-27.924	43.812	52.685	1.00	21.49	E	O
	ATOM	7628	N	LYS	E	408	-29.014	42.268	53.888	1.00	20.58	E	N
	ATOM	7629	CA	LYS	E	408	-30.160	42.273	52.985	1.00	19.83	E	C
	ATOM	7630	CB	LYS	E	408	-31.057	41.065	53.244	1.00	18.68	E	C
25	ATOM	7631	CG	LYS	E	408	-30.538	39.778	52.631	1.00	16.75	E	C
	ATOM	7632	CD	LYS	E	408	-30.799	38.598	53.539	1.00	22.05	E	C
	ATOM	7633	CE	LYS	E	408	-32.109	37.913	53.201	1.00	24.89	E	C
	ATOM	7634	NZ	LYS	E	408	-32.453	38.037	51.747	1.00	30.22	E	N
	ATOM	7635	C	LYS	E	408	-30.951	43.560	53.157	1.00	20.54	E	C
30	ATOM	7636	O	LYS	E	408	-31.636	44.007	52.238	1.00	21.21	E	O
	ATOM	7637	N	GLU	E	409	-30.843	44.166	54.335	1.00	19.50	E	N
	ATOM	7638	CA	GLU	E	409	-31.554	45.409	54.595	1.00	20.35	E	C
	ATOM	7639	CB	GLU	E	409	-31.630	45.676	56.101	1.00	20.57	E	C
	ATOM	7640	CG	GLU	E	409	-32.838	45.039	56.766	1.00	20.72	E	C
35	ATOM	7641	CD	GLU	E	409	-32.854	45.198	58.284	1.00	23.26	E	C
	ATOM	7642	OE1	GLU	E	409	-31.939	45.837	58.847	1.00	22.14	E	O
	ATOM	7643	OE2	GLU	E	409	-33.794	44.678	58.915	1.00	22.92	E	O
	ATOM	7644	C	GLU	E	409	-30.842	46.557	53.883	1.00	19.85	E	C
	ATOM	7645	O	GLU	E	409	-31.471	47.524	53.447	1.00	20.01	E	O
40	ATOM	7646	N	VAL	E	410	-29.526	46.437	53.765	1.00	18.60	E	N
	ATOM	7647	CA	VAL	E	410	-28.715	47.445	53.087	1.00	18.31	E	C
	ATOM	7648	CB	VAL	E	410	-27.207	47.209	53.343	1.00	18.95	E	C
	ATOM	7649	CG1	VAL	E	410	-26.376	48.138	52.466	1.00	18.62	E	C
	ATOM	7650	CG2	VAL	E	410	-26.883	47.423	54.813	1.00	12.64	E	C
45	ATOM	7651	C	VAL	E	410	-28.970	47.367	51.579	1.00	19.03	E	C
	ATOM	7652	O	VAL	E	410	-29.186	48.382	50.920	1.00	18.25	E	O
	ATOM	7653	N	GLY	E	411	-28.939	46.150	51.046	1.00	19.90	E	N
	ATOM	7654	CA	GLY	E	411	-29.178	45.949	49.631	1.00	18.74	E	C
	ATOM	7655	C	GLY	E	411	-30.534	46.490	49.223	1.00	19.89	E	C
50	ATOM	7656	O	GLY	E	411	-30.685	47.061	48.145	1.00	22.56	E	O
	ATOM	7657	N	ALA	E	412	-31.528	46.318	50.082	1.00	20.29	E	N
	ATOM	7658	CA	ALA	E	412	-32.866	46.803	49.783	1.00	18.63	E	C
	ATOM	7659	CB	ALA	E	412	-33.848	46.299	50.817	1.00	17.59	E	C
	ATOM	7660	C	ALA	E	412	-32.887	48.320	49.744	1.00	21.32	E	C
55	ATOM	7661	O	ALA	E	412	-33.653	48.915	48.988	1.00	21.87	E	O
	ATOM	7662	N	ASP	E	413	-32.052	48.955	50.563	1.00	21.76	E	N
	ATOM	7663	CA	ASP	E	413	-32.005	50.414	50.587	1.00	21.17	E	C
	ATOM	7664	CB	ASP	E	413	-31.135	50.907	51.746	1.00	24.18	E	C
	ATOM	7665	CG	ASP	E	413	-31.913	51.052	53.052	1.00	27.12	E	C
60	ATOM	7666	OD1	ASP	E	413	-31.278	51.000	54.132	1.00	23.75	E	O
	ATOM	7667	OD2	ASP	E	413	-33.153	51.218	53.002	1.00	26.66	E	O
	ATOM	7668	C	ASP	E	413	-31.429	50.918	49.268	1.00	20.83	E	C
	ATOM	7669	O	ASP	E	413	-31.841	51.956	48.751	1.00	20.32	E	O
	ATOM	7670	N	LEU	E	414	-30.464	50.171	48.742	1.00	20.28	E	N
65	ATOM	7671	CA	LEU	E	414	-29.798	50.498	47.488	1.00	18.16	E	C
	ATOM	7672	CB	LEU	E	414	-28.675	49.492	47.226	1.00	17.29	E	C
	ATOM	7673	CG	LEU	E	414	-27.231	49.858	47.582	1.00	18.57	E	C
	ATOM	7674	CD1	LEU	E	414	-27.194	51.026	48.527	1.00	16.05	E	C

	ATOM	7675	CD2	LEU	E	414	-26.549	48.652	48.190	1.00	16.41	E	C
	ATOM	7676	C	LEU	E	414	-30.801	50.459	46.338	1.00	18.61	E	C
	ATOM	7677	O	LEU	E	414	-30.892	51.401	45.551	1.00	16.77	E	O
	ATOM	7678	N	VAL	E	415	-31.552	49.363	46.259	1.00	19.90	E	N
5	ATOM	7679	CA	VAL	E	415	-32.558	49.178	45.220	1.00	21.23	E	C
	ATOM	7680	CB	VAL	E	415	-33.314	47.849	45.406	1.00	22.07	E	C
	ATOM	7681	CG1	VAL	E	415	-34.526	47.806	44.491	1.00	21.18	E	C
	ATOM	7682	CG2	VAL	E	415	-32.389	46.675	45.106	1.00	19.05	E	C
	ATOM	7683	C	VAL	E	415	-33.574	50.307	45.220	1.00	22.59	E	C
10	ATOM	7684	O	VAL	E	415	-34.149	50.637	44.186	1.00	24.88	E	O
	ATOM	7685	N	ASP	E	416	-33.796	50.894	46.388	1.00	26.28	E	N
	ATOM	7686	CA	ASP	E	416	-34.745	51.996	46.526	1.00	27.99	E	C
	ATOM	7687	CB	ASP	E	416	-35.053	52.255	47.999	1.00	32.99	E	C
	ATOM	7688	CG	ASP	E	416	-36.242	51.471	48.488	1.00	41.21	E	C
15	ATOM	7689	OD1	ASP	E	416	-36.612	51.647	49.668	1.00	47.22	E	O
	ATOM	7690	OD2	ASP	E	416	-36.808	50.678	47.698	1.00	48.07	E	O
	ATOM	7691	C	ASP	E	416	-34.178	53.264	45.920	1.00	25.90	E	C
	ATOM	7692	O	ASP	E	416	-34.876	53.990	45.221	1.00	27.11	E	O
	ATOM	7693	N	ALA	E	417	-32.910	53.531	46.213	1.00	24.03	E	N
20	ATOM	7694	CA	ALA	E	417	-32.228	54.716	45.711	1.00	22.92	E	C
	ATOM	7695	CB	ALA	E	417	-30.953	54.949	46.493	1.00	24.83	E	C
	ATOM	7696	C	ALA	E	417	-31.915	54.534	44.232	1.00	23.35	E	C
	ATOM	7697	O	ALA	E	417	-31.571	55.486	43.534	1.00	21.90	E	O
	ATOM	7698	N	LYS	E	418	-32.008	53.289	43.778	1.00	22.17	E	N
25	ATOM	7699	CA	LYS	E	418	-31.795	52.929	42.378	1.00	19.87	E	C
	ATOM	7700	CB	LYS	E	418	-32.857	53.621	41.517	1.00	19.81	E	C
	ATOM	7701	CG	LYS	E	418	-32.740	53.325	40.027	1.00	20.80	E	C
	ATOM	7702	CD	LYS	E	418	-33.976	53.809	39.269	1.00	25.35	E	C
	ATOM	7703	CE	LYS	E	418	-33.962	53.357	37.808	1.00	25.69	E	C
30	ATOM	7704	NZ	LYS	E	418	-34.644	54.345	36.909	1.00	27.32	E	N
	ATOM	7705	C	LYS	E	418	-30.441	53.126	41.704	1.00	17.42	E	C
	ATOM	7706	O	LYS	E	418	-29.956	52.210	41.049	1.00	18.26	E	O
	ATOM	7707	N	TYR	E	419	-29.826	54.296	41.859	1.00	17.92	E	N
	ATOM	7708	CA	TYR	E	419	-28.571	54.584	41.160	1.00	15.60	E	C
35	ATOM	7709	CB	TYR	E	419	-28.573	56.056	40.741	1.00	14.27	E	C
	ATOM	7710	CG	TYR	E	419	-29.804	56.415	39.933	1.00	15.73	E	C
	ATOM	7711	CD1	TYR	E	419	-29.931	55.999	38.613	1.00	16.42	E	C
	ATOM	7712	CE1	TYR	E	419	-31.091	56.247	37.885	1.00	17.91	E	C
	ATOM	7713	CD2	TYR	E	419	-30.871	57.102	40.507	1.00	16.50	E	C
40	ATOM	7714	CE2	TYR	E	419	-32.047	57.358	39.779	1.00	16.56	E	C
	ATOM	7715	CZ	TYR	E	419	-32.145	56.918	38.468	1.00	17.33	E	C
	ATOM	7716	OH	TYR	E	419	-33.294	57.107	37.737	1.00	17.00	E	O
	ATOM	7717	C	TYR	E	419	-27.213	54.217	41.750	1.00	16.00	E	C
	ATOM	7718	O	TYR	E	419	-26.217	54.204	41.024	1.00	18.58	E	O
45	ATOM	7719	N	GLN	E	420	-27.147	53.917	43.040	1.00	16.78	E	N
	ATOM	7720	CA	GLN	E	420	-25.870	53.540	43.634	1.00	14.63	E	C
	ATOM	7721	CB	GLN	E	420	-25.677	54.234	44.982	1.00	17.57	E	C
	ATOM	7722	CG	GLN	E	420	-25.279	55.688	44.859	1.00	18.86	E	C
	ATOM	7723	CD	GLN	E	420	-26.418	56.551	44.361	1.00	24.20	E	C
50	ATOM	7724	OE1	GLN	E	420	-26.326	57.173	43.301	1.00	27.30	E	O
	ATOM	7725	NE2	GLN	E	420	-27.503	56.592	45.124	1.00	23.91	E	N
	ATOM	7726	C	GLN	E	420	-25.772	52.029	43.809	1.00	13.35	E	C
	ATOM	7727	O	GLN	E	420	-26.743	51.371	44.199	1.00	11.00	E	O
	ATOM	7728	N	HIS	E	421	-24.595	51.490	43.500	1.00	9.88	E	N
55	ATOM	7729	CA	HIS	E	421	-24.325	50.061	43.615	1.00	10.52	E	C
	ATOM	7730	CB	HIS	E	421	-24.015	49.465	42.234	1.00	9.74	E	C
	ATOM	7731	CG	HIS	E	421	-25.161	49.539	41.272	1.00	11.95	E	C
	ATOM	7732	CD2	HIS	E	421	-25.722	50.592	40.628	1.00	9.43	E	C
	ATOM	7733	ND1	HIS	E	421	-25.873	48.425	40.878	1.00	9.93	E	N
60	ATOM	7734	CE1	HIS	E	421	-26.825	48.790	40.036	1.00	7.26	E	C
	ATOM	7735	NE2	HIS	E	421	-26.753	50.098	39.866	1.00	9.81	E	N
	ATOM	7736	C	HIS	E	421	-23.110	49.893	44.527	1.00	11.78	E	C
	ATOM	7737	O	HIS	E	421	-22.437	50.874	44.843	1.00	11.47	E	O
	ATOM	7738	N	ALA	E	422	-22.816	48.656	44.927	1.00	10.93	E	N
65	ATOM	7739	CA	ALA	E	422	-21.682	48.395	45.808	1.00	10.16	E	C
	ATOM	7740	CB	ALA	E	422	-22.128	48.499	47.260	1.00	8.88	E	C
	ATOM	7741	C	ALA	E	422	-21.062	47.030	45.556	1.00	10.02	E	C
	ATOM	7742	O	ALA	E	422	-21.750	46.103	45.144	1.00	12.33	E	O

	ATOM	7743	N	GLU	E	423	-19.758	46.913	45.808	1.00	9.64	E	N
	ATOM	7744	CA	GLU	E	423	-19.030	45.657	45.617	1.00	12.86	E	C
	ATOM	7745	CB	GLU	E	423	-17.879	45.860	44.636	1.00	11.20	E	C
	ATOM	7746	CG	GLU	E	423	-18.269	46.366	43.265	1.00	13.38	E	C
5	ATOM	7747	CD	GLU	E	423	-17.097	46.325	42.296	1.00	14.67	E	C
	ATOM	7748	OE1	GLU	E	423	-16.908	45.283	41.634	1.00	15.81	E	O
	ATOM	7749	OE2	GLU	E	423	-16.360	47.328	42.203	1.00	12.91	E	O
	ATOM	7750	C	GLU	E	423	-18.461	45.147	46.950	1.00	11.84	E	C
10	ATOM	7751	O	GLU	E	423	-17.245	45.056	47.119	1.00	12.39	E	O
	ATOM	7752	N	PRO	E	424	-19.339	44.780	47.899	1.00	14.73	E	N
	ATOM	7753	CD	PRO	E	424	-20.807	44.787	47.757	1.00	14.26	E	C
	ATOM	7754	CA	PRO	E	424	-18.932	44.284	49.219	1.00	14.10	E	C
	ATOM	7755	CB	PRO	E	424	-20.260	44.038	49.931	1.00	13.01	E	C
	ATOM	7756	CG	PRO	E	424	-21.248	43.856	48.823	1.00	11.35	E	C
15	ATOM	7757	C	PRO	E	424	-18.044	43.045	49.201	1.00	14.30	E	C
	ATOM	7758	O	PRO	E	424	-18.314	42.077	48.495	1.00	16.31	E	O
	ATOM	7759	N	ARG	E	425	-16.990	43.091	50.009	1.00	15.00	E	N
	ATOM	7760	CA	ARG	E	425	-16.014	42.011	50.130	1.00	13.23	E	C
20	ATOM	7761	CB	ARG	E	425	-14.617	42.624	50.304	1.00	8.41	E	C
	ATOM	7762	CG	ARG	E	425	-13.698	42.464	49.113	1.00	10.58	E	C
	ATOM	7763	CD	ARG	E	425	-13.127	43.781	48.619	1.00	9.34	E	C
	ATOM	7764	NE	ARG	E	425	-14.124	44.577	47.914	1.00	13.65	E	N
	ATOM	7765	CZ	ARG	E	425	-13.858	45.421	46.919	1.00	12.26	E	C
	ATOM	7766	NH1	ARG	E	425	-12.614	45.597	46.491	1.00	8.46	E	N
25	ATOM	7767	NH2	ARG	E	425	-14.843	46.118	46.369	1.00	11.69	E	N
	ATOM	7768	C	ARG	E	425	-16.338	41.099	51.327	1.00	14.12	E	C
	ATOM	7769	O	ARG	E	425	-16.566	41.585	52.435	1.00	13.78	E	O
	ATOM	7770	N	LEU	E	426	-16.362	39.786	51.094	1.00	16.60	E	N
30	ATOM	7771	CA	LEU	E	426	-16.637	38.791	52.137	1.00	15.24	E	C
	ATOM	7772	CB	LEU	E	426	-17.635	37.742	51.637	1.00	13.37	E	C
	ATOM	7773	CG	LEU	E	426	-19.096	38.176	51.459	1.00	13.48	E	C
	ATOM	7774	CD1	LEU	E	426	-19.816	37.197	50.533	1.00	10.94	E	C
	ATOM	7775	CD2	LEU	E	426	-19.786	38.231	52.820	1.00	10.21	E	C
35	ATOM	7776	C	LEU	E	426	-15.315	38.115	52.470	1.00	15.44	E	C
	ATOM	7777	O	LEU	E	426	-14.475	37.946	51.588	1.00	16.13	E	O
	ATOM	7778	N	SER	E	427	-15.132	37.713	53.728	1.00	16.27	E	N
	ATOM	7779	CA	SER	E	427	-13.875	37.095	54.152	1.00	15.76	E	C
	ATOM	7780	CB	SER	E	427	-13.537	37.495	55.594	1.00	15.76	E	C
40	ATOM	7781	OG	SER	E	427	-13.543	38.898	55.773	1.00	17.47	E	O
	ATOM	7782	C	SER	E	427	-13.782	35.587	54.071	1.00	14.58	E	C
	ATOM	7783	O	SER	E	427	-14.727	34.878	54.386	1.00	18.99	E	O
	ATOM	7784	N	ILE	E	428	-12.612	35.121	53.651	1.00	14.63	E	N
	ATOM	7785	CA	ILE	E	428	-12.269	33.706	53.568	1.00	15.90	E	C
	ATOM	7786	CB	ILE	E	428	-12.302	33.178	52.116	1.00	15.87	E	C
45	ATOM	7787	CG2	ILE	E	428	-11.404	31.949	51.973	1.00	12.13	E	C
	ATOM	7788	CG1	ILE	E	428	-13.745	32.837	51.724	1.00	11.69	E	C
	ATOM	7789	CD1	ILE	E	428	-14.273	31.528	52.300	1.00	5.89	E	C
	ATOM	7790	C	ILE	E	428	-10.838	33.798	54.075	1.00	18.37	E	C
50	ATOM	7791	O	ILE	E	428	-9.969	34.318	53.386	1.00	17.95	E	O
	ATOM	7792	N	TYR	E	429	-10.611	33.323	55.296	1.00	21.13	E	N
	ATOM	7793	CA	TYR	E	429	-9.300	33.428	55.936	1.00	23.62	E	C
	ATOM	7794	CB	TYR	E	429	-9.472	33.410	57.461	1.00	21.77	E	C
	ATOM	7795	CG	TYR	E	429	-10.469	34.429	57.995	1.00	19.81	E	C
55	ATOM	7796	CD1	TYR	E	429	-11.830	34.114	58.125	1.00	19.51	E	C
	ATOM	7797	CE1	TYR	E	429	-12.745	35.044	58.629	1.00	14.20	E	C
	ATOM	7798	CD2	TYR	E	429	-10.051	35.698	58.384	1.00	16.30	E	C
	ATOM	7799	CE2	TYR	E	429	-10.949	36.628	58.886	1.00	14.82	E	C
	ATOM	7800	CZ	TYR	E	429	-12.294	36.298	59.006	1.00	18.39	E	C
60	ATOM	7801	OH	TYR	E	429	-13.176	37.238	59.496	1.00	21.74	E	O
	ATOM	7802	C	TYR	E	429	-8.224	32.423	55.553	1.00	24.52	E	C
	ATOM	7803	O	TYR	E	429	-7.039	32.750	55.569	1.00	25.64	E	O
	ATOM	7804	N	GLY	E	430	-8.620	31.206	55.210	1.00	23.67	E	N
	ATOM	7805	CA	GLY	E	430	-7.624	30.210	54.872	1.00	22.83	E	C
65	ATOM	7806	C	GLY	E	430	-7.196	29.520	56.153	1.00	22.99	E	C
	ATOM	7807	O	GLY	E	430	-6.156	28.867	56.212	1.00	24.10	E	O
	ATOM	7808	N	ARG	E	431	-8.017	29.672	57.186	1.00	21.77	E	N
	ATOM	7809	CA	ARG	E	431	-7.762	29.072	58.485	1.00	23.58	E	C
	ATOM	7810	CB	ARG	E	431	-8.501	29.865	59.564	1.00	26.85	E	C

	ATOM	7811	CG	ARG	E	431	-8.451	29.246	60.955	1.00	33.58	E	C
	ATOM	7812	CD	ARG	E	431	-9.612	29.726	61.818	1.00	38.84	E	C
	ATOM	7813	NE	ARG	E	431	-10.919	29.358	61.261	1.00	40.41	E	N
	ATOM	7814	CZ	ARG	E	431	-11.849	30.239	60.889	1.00	42.22	E	C
5	ATOM	7815	NH1	ARG	E	431	-11.617	31.545	61.012	1.00	42.45	E	N
	ATOM	7816	NH2	ARG	E	431	-13.016	29.819	60.408	1.00	40.55	E	N
	ATOM	7817	C	ARG	E	431	-8.236	27.621	58.485	1.00	24.74	E	C
	ATOM	7818	O	ARG	E	431	-7.623	26.754	59.103	1.00	21.95	E	O
	ATOM	7819	N	SER	E	432	-9.331	27.367	57.776	1.00	28.57	E	N
10	ATOM	7820	CA	SER	E	432	-9.908	26.030	57.684	1.00	30.13	E	C
	ATOM	7821	CB	SER	E	432	-11.072	25.896	58.674	1.00	31.44	E	C
	ATOM	7822	OG	SER	E	432	-11.860	24.752	58.374	1.00	35.64	E	O
	ATOM	7823	C	SER	E	432	-10.401	25.749	56.259	1.00	32.70	E	C
	ATOM	7824	O	SER	E	432	-10.804	26.665	55.540	1.00	34.76	E	O
15	ATOM	7825	N	PRO	E	433	-10.396	24.471	55.841	1.00	32.31	E	N
	ATOM	7826	CD	PRO	E	433	-9.969	23.294	56.619	1.00	32.40	E	C
	ATOM	7827	CA	PRO	E	433	-10.846	24.109	54.491	1.00	32.18	E	C
	ATOM	7828	CB	PRO	E	433	-10.200	22.749	54.252	1.00	32.34	E	C
	ATOM	7829	CG	PRO	E	433	-10.038	22.161	55.621	1.00	32.86	E	C
20	ATOM	7830	C	PRO	E	433	-12.361	24.075	54.281	1.00	31.20	E	C
	ATOM	7831	O	PRO	E	433	-12.837	24.015	53.142	1.00	28.49	E	O
	ATOM	7832	N	ASP	E	434	-13.123	24.120	55.370	1.00	28.81	E	N
	ATOM	7833	CA	ASP	E	434	-14.577	24.095	55.247	1.00	26.70	E	C
	ATOM	7834	CB	ASP	E	434	-15.189	23.276	56.394	1.00	31.54	E	C
25	ATOM	7835	CG	ASP	E	434	-15.154	24.005	57.734	1.00	39.22	E	C
	ATOM	7836	OD1	ASP	E	434	-14.265	24.858	57.945	1.00	42.93	E	O
	ATOM	7837	OD2	ASP	E	434	-16.025	23.718	58.584	1.00	41.01	E	O
	ATOM	7838	C	ASP	E	434	-15.203	25.493	55.192	1.00	24.25	E	C
	ATOM	7839	O	ASP	E	434	-16.430	25.629	55.209	1.00	22.12	E	O
30	ATOM	7840	N	GLU	E	435	-14.364	26.524	55.098	1.00	19.95	E	N
	ATOM	7841	CA	GLU	E	435	-14.847	27.902	55.055	1.00	20.80	E	C
	ATOM	7842	CB	GLU	E	435	-13.664	28.874	55.104	1.00	20.15	E	C
	ATOM	7843	CG	GLU	E	435	-13.082	29.035	56.499	1.00	20.40	E	C
	ATOM	7844	CD	GLU	E	435	-11.950	30.030	56.552	1.00	23.38	E	C
35	ATOM	7845	OE1	GLU	E	435	-10.807	29.609	56.841	1.00	23.96	E	O
	ATOM	7846	OE2	GLU	E	435	-12.203	31.233	56.310	1.00	25.32	E	O
	ATOM	7847	C	GLU	E	435	-15.715	28.205	53.838	1.00	20.84	E	C
	ATOM	7848	O	GLU	E	435	-16.720	28.917	53.936	1.00	22.41	E	O
	ATOM	7849	N	TRP	E	436	-15.327	27.661	52.690	1.00	20.74	E	N
40	ATOM	7850	CA	TRP	E	436	-16.069	27.879	51.453	1.00	19.64	E	C
	ATOM	7851	CB	TRP	E	436	-15.276	27.332	50.263	1.00	15.88	E	C
	ATOM	7852	CG	TRP	E	436	-14.153	28.234	49.807	1.00	13.40	E	C
	ATOM	7853	CD2	TRP	E	436	-14.274	29.414	49.000	1.00	12.78	E	C
	ATOM	7854	CE2	TRP	E	436	-12.970	29.917	48.792	1.00	12.28	E	C
45	ATOM	7855	CE3	TRP	E	436	-15.360	30.091	48.429	1.00	14.11	E	C
	ATOM	7856	CD1	TRP	E	436	-12.819	28.076	50.053	1.00	14.83	E	C
	ATOM	7857	NE1	TRP	E	436	-12.098	29.087	49.443	1.00	13.28	E	N
	ATOM	7858	CZ2	TRP	E	436	-12.724	31.069	48.040	1.00	11.75	E	C
	ATOM	7859	CZ3	TRP	E	436	-15.112	31.239	47.679	1.00	12.57	E	C
50	ATOM	7860	CH2	TRP	E	436	-13.806	31.712	47.492	1.00	10.59	E	C
	ATOM	7861	C	TRP	E	436	-17.437	27.209	51.526	1.00	20.43	E	C
	ATOM	7862	O	TRP	E	436	-18.444	27.763	51.079	1.00	20.28	E	O
	ATOM	7863	N	SER	E	437	-17.471	26.013	52.099	1.00	22.18	E	N
	ATOM	7864	CA	SER	E	437	-18.722	25.282	52.237	1.00	21.07	E	C
55	ATOM	7865	CB	SER	E	437	-18.467	23.888	52.807	1.00	23.07	E	C
	ATOM	7866	OG	SER	E	437	-19.657	23.371	53.378	1.00	25.56	E	O
	ATOM	7867	C	SER	E	437	-19.684	26.019	53.152	1.00	20.11	E	C
	ATOM	7868	O	SER	E	437	-20.895	26.021	52.921	1.00	19.90	E	O
	ATOM	7869	N	LYS	E	438	-19.145	26.637	54.199	1.00	20.42	E	N
60	ATOM	7870	CA	LYS	E	438	-19.975	27.379	55.144	1.00	20.22	E	C
	ATOM	7871	CB	LYS	E	438	-19.190	27.674	56.424	1.00	22.48	E	C
	ATOM	7872	CG	LYS	E	438	-18.616	26.451	57.108	1.00	23.54	E	C
	ATOM	7873	CD	LYS	E	438	-18.941	26.470	58.589	1.00	26.46	E	C
	ATOM	7874	CE	LYS	E	438	-17.807	25.883	59.417	1.00	31.84	E	C
65	ATOM	7875	NZ	LYS	E	438	-18.148	25.854	60.871	1.00	32.88	E	N
	ATOM	7876	C	LYS	E	438	-20.459	28.688	54.535	1.00	17.22	E	C
	ATOM	7877	O	LYS	E	438	-21.633	29.037	54.648	1.00	19.16	E	O
	ATOM	7878	N	LEU	E	439	-19.557	29.412	53.883	1.00	15.73	E	N

	ATOM	7879	CA	LEU	E	439	-19.926	30.686	53.281	1.00	15.31	E	C
	ATOM	7880	CB	LEU	E	439	-18.676	31.427	52.800	1.00	13.83	E	C
	ATOM	7881	CG	LEU	E	439	-18.845	32.901	52.411	1.00	14.15	E	C
	ATOM	7882	CD1	LEU	E	439	-19.619	33.670	53.479	1.00	11.65	E	C
5	ATOM	7883	CD2	LEU	E	439	-17.466	33.502	52.208	1.00	10.71	E	C
	ATOM	7884	C	LEU	E	439	-20.909	30.497	52.133	1.00	16.69	E	C
	ATOM	7885	O	LEU	E	439	-21.887	31.229	52.027	1.00	18.67	E	O
	ATOM	7886	N	SER	E	440	-20.664	29.517	51.270	1.00	18.56	E	N
10	ATOM	7887	CA	SER	E	440	-21.583	29.289	50.158	1.00	19.87	E	C
	ATOM	7888	CB	SER	E	440	-21.125	28.100	49.301	1.00	17.75	E	C
	ATOM	7889	OG	SER	E	440	-21.019	26.912	50.058	1.00	19.30	E	O
	ATOM	7890	C	SER	E	440	-22.980	29.035	50.712	1.00	19.89	E	C
	ATOM	7891	O	SER	E	440	-23.958	29.617	50.246	1.00	22.56	E	O
	ATOM	7892	N	SER	E	441	-23.069	28.182	51.727	1.00	19.78	E	N
15	ATOM	7893	CA	SER	E	441	-24.353	27.861	52.345	1.00	19.34	E	C
	ATOM	7894	CB	SER	E	441	-24.176	26.754	53.393	1.00	22.45	E	C
	ATOM	7895	OG	SER	E	441	-23.428	25.660	52.877	1.00	27.49	E	O
	ATOM	7896	C	SER	E	441	-24.998	29.083	52.997	1.00	18.15	E	C
	ATOM	7897	O	SER	E	441	-26.216	29.252	52.956	1.00	17.41	E	O
20	ATOM	7898	N	TRP	E	442	-24.183	29.934	53.607	1.00	17.66	E	N
	ATOM	7899	CA	TRP	E	442	-24.697	31.132	54.263	1.00	18.63	E	C
	ATOM	7900	CB	TRP	E	442	-23.552	31.852	54.997	1.00	16.81	E	C
	ATOM	7901	CG	TRP	E	442	-23.889	33.227	55.507	1.00	18.77	E	C
	ATOM	7902	CD2	TRP	E	442	-23.619	34.481	54.859	1.00	20.80	E	C
25	ATOM	7903	CE2	TRP	E	442	-24.104	35.506	55.708	1.00	18.76	E	C
	ATOM	7904	CE3	TRP	E	442	-23.017	34.838	53.644	1.00	18.97	E	C
	ATOM	7905	CD1	TRP	E	442	-24.504	33.535	56.686	1.00	18.87	E	C
	ATOM	7906	NE1	TRP	E	442	-24.638	34.902	56.815	1.00	17.90	E	N
	ATOM	7907	CZ2	TRP	E	442	-24.005	36.863	55.382	1.00	18.42	E	C
30	ATOM	7908	CZ3	TRP	E	442	-22.918	36.196	53.320	1.00	20.13	E	C
	ATOM	7909	CH2	TRP	E	442	-23.413	37.189	54.189	1.00	16.26	E	C
	ATOM	7910	C	TRP	E	442	-25.326	32.053	53.219	1.00	18.30	E	C
	ATOM	7911	O	TRP	E	442	-26.415	32.592	53.422	1.00	17.03	E	O
	ATOM	7912	N	PHE	E	443	-24.629	32.209	52.095	1.00	19.05	E	N
35	ATOM	7913	CA	PHE	E	443	-25.066	33.062	50.992	1.00	17.66	E	C
	ATOM	7914	CB	PHE	E	443	-23.916	33.199	49.989	1.00	19.38	E	C
	ATOM	7915	CG	PHE	E	443	-24.133	34.261	48.946	1.00	21.16	E	C
	ATOM	7916	CD1	PHE	E	443	-24.920	34.009	47.828	1.00	22.32	E	C
	ATOM	7917	CD2	PHE	E	443	-23.538	35.509	49.073	1.00	19.91	E	C
40	ATOM	7918	CE1	PHE	E	443	-25.110	34.984	46.856	1.00	21.35	E	C
	ATOM	7919	CE2	PHE	E	443	-23.722	36.489	48.110	1.00	18.60	E	C
	ATOM	7920	CZ	PHE	E	443	-24.508	36.227	46.999	1.00	20.96	E	C
	ATOM	7921	C	PHE	E	443	-26.320	32.548	50.280	1.00	18.87	E	C
	ATOM	7922	O	PHE	E	443	-27.266	33.304	50.042	1.00	16.09	E	O
45	ATOM	7923	N	VAL	E	444	-26.322	31.261	49.936	1.00	19.77	E	N
	ATOM	7924	CA	VAL	E	444	-27.451	30.657	49.243	1.00	20.11	E	C
	ATOM	7925	CB	VAL	E	444	-27.083	29.255	48.717	1.00	22.30	E	C
	ATOM	7926	CG1	VAL	E	444	-28.243	28.673	47.924	1.00	20.77	E	C
	ATOM	7927	CG2	VAL	E	444	-25.834	29.333	47.854	1.00	18.32	E	C
50	ATOM	7928	C	VAL	E	444	-28.681	30.531	50.137	1.00	22.33	E	C
	ATOM	7929	O	VAL	E	444	-29.775	30.972	49.778	1.00	22.71	E	O
	ATOM	7930	N	ARG	E	445	-28.498	29.927	51.305	1.00	25.19	E	N
	ATOM	7931	CA	ARG	E	445	-29.598	29.722	52.239	1.00	26.16	E	C
	ATOM	7932	CB	ARG	E	445	-29.109	28.947	53.455	1.00	28.88	E	C
55	ATOM	7933	CG	ARG	E	445	-29.287	27.454	53.333	1.00	34.88	E	C
	ATOM	7934	CD	ARG	E	445	-28.200	26.724	54.090	1.00	40.38	E	C
	ATOM	7935	NE	ARG	E	445	-27.739	25.545	53.369	1.00	42.39	E	N
	ATOM	7936	CZ	ARG	E	445	-27.330	24.430	53.957	1.00	45.35	E	C
	ATOM	7937	NH1	ARG	E	445	-27.323	24.335	55.281	1.00	45.02	E	N
60	ATOM	7938	NH2	ARG	E	445	-26.934	23.409	53.217	1.00	46.76	E	N
	ATOM	7939	C	ARG	E	445	-30.262	31.009	52.701	1.00	26.12	E	C
	ATOM	7940	O	ARG	E	445	-31.458	31.029	52.989	1.00	25.19	E	O
	ATOM	7941	N	ASN	E	446	-29.490	32.085	52.783	1.00	24.67	E	N
	ATOM	7942	CA	ASN	E	446	-30.044	33.355	53.223	1.00	22.43	E	C
65	ATOM	7943	CB	ASN	E	446	-28.998	34.125	54.031	1.00	23.88	E	C
	ATOM	7944	CG	ASN	E	446	-28.896	33.634	55.472	1.00	22.42	E	C
	ATOM	7945	OD1	ASN	E	446	-27.982	32.890	55.831	1.00	19.81	E	O
	ATOM	7946	ND2	ASN	E	446	-29.841	34.051	56.302	1.00	23.29	E	N

	ATOM	7947	C	ASN	E	446	-30.531	34.182	52.042	1.00	23.81	E	C
	ATOM	7948	O	ASN	E	446	-31.058	35.277	52.221	1.00	20.52	E	O
	ATOM	7949	N	ARG	E	447	-30.358	33.642	50.837	1.00	24.71	E	N
5	ATOM	7950	CA	ARG	E	447	-30.786	34.308	49.608	1.00	26.91	E	C
	ATOM	7951	CB	ARG	E	447	-32.315	34.352	49.519	1.00	27.16	E	C
	ATOM	7952	CG	ARG	E	447	-33.008	33.099	50.033	1.00	35.92	E	C
	ATOM	7953	CD	ARG	E	447	-33.376	32.150	48.900	1.00	40.20	E	C
	ATOM	7954	NE	ARG	E	447	-34.212	32.810	47.898	1.00	44.07	E	N
10	ATOM	7955	CZ	ARG	E	447	-34.365	32.377	46.649	1.00	44.66	E	C
	ATOM	7956	NH1	ARG	E	447	-33.744	31.278	46.239	1.00	44.14	E	N
	ATOM	7957	NH2	ARG	E	447	-35.133	33.050	45.804	1.00	46.31	E	N
	ATOM	7958	C	ARG	E	447	-30.243	35.720	49.505	1.00	25.73	E	C
	ATOM	7959	O	ARG	E	447	-30.991	36.664	49.245	1.00	24.60	E	O
	ATOM	7960	N	ILE	E	448	-28.942	35.865	49.717	1.00	26.00	E	N
15	ATOM	7961	CA	ILE	E	448	-28.318	37.176	49.633	1.00	28.87	E	C
	ATOM	7962	CB	ILE	E	448	-26.995	37.219	50.427	1.00	27.46	E	C
	ATOM	7963	CG2	ILE	E	448	-26.203	38.457	50.063	1.00	27.47	E	C
	ATOM	7964	CG1	ILE	E	448	-27.290	37.230	51.923	1.00	25.01	E	C
	ATOM	7965	CD1	ILE	E	448	-26.468	36.249	52.684	1.00	27.34	E	C
20	ATOM	7966	C	ILE	E	448	-28.037	37.485	48.168	1.00	30.71	E	C
	ATOM	7967	O	ILE	E	448	-27.097	36.961	47.576	1.00	35.27	E	O
	ATOM	7968	N	TYR	E	449	-28.873	38.322	47.576	1.00	29.04	E	N
	ATOM	7969	CA	TYR	E	449	-28.702	38.700	46.187	1.00	26.52	E	C
	ATOM	7970	CB	TYR	E	449	-29.233	37.614	45.238	1.00	27.14	E	C
25	ATOM	7971	CG	TYR	E	449	-29.478	38.142	43.840	1.00	29.26	E	C
	ATOM	7972	CD1	TYR	E	449	-28.435	38.243	42.918	1.00	28.53	E	C
	ATOM	7973	CE1	TYR	E	449	-28.627	38.843	41.675	1.00	28.81	E	C
	ATOM	7974	CD2	TYR	E	449	-30.726	38.647	43.473	1.00	30.91	E	C
	ATOM	7975	CE2	TYR	E	449	-30.927	39.250	42.230	1.00	30.94	E	C
30	ATOM	7976	CZ	TYR	E	449	-29.872	39.347	41.339	1.00	30.77	E	C
	ATOM	7977	OH	TYR	E	449	-30.057	39.970	40.125	1.00	32.69	E	O
	ATOM	7978	C	TYR	E	449	-29.490	39.975	45.993	1.00	24.94	E	C
	ATOM	7979	O	TYR	E	449	-30.705	39.996	46.173	1.00	26.98	E	O
	ATOM	7980	N	SER	E	450	-28.793	41.044	45.642	1.00	21.21	E	N
35	ATOM	7981	CA	SER	E	450	-29.443	42.320	45.419	1.00	21.39	E	C
	ATOM	7982	CB	SER	E	450	-28.945	43.350	46.438	1.00	16.62	E	C
	ATOM	7983	OG	SER	E	450	-29.298	44.675	46.075	1.00	17.70	E	O
	ATOM	7984	C	SER	E	450	-29.071	42.729	44.003	1.00	21.59	E	C
	ATOM	7985	O	SER	E	450	-27.955	42.464	43.548	1.00	21.34	E	O
40	ATOM	7986	N	SER	E	451	-30.004	43.351	43.297	1.00	21.83	E	N
	ATOM	7987	CA	SER	E	451	-29.724	43.767	41.936	1.00	23.93	E	C
	ATOM	7988	CB	SER	E	451	-31.016	44.161	41.235	1.00	21.48	E	C
	ATOM	7989	OG	SER	E	451	-31.587	45.271	41.887	1.00	27.14	E	O
	ATOM	7990	C	SER	E	451	-28.750	44.940	41.940	1.00	23.10	E	C
45	ATOM	7991	O	SER	E	451	-28.290	45.366	40.880	1.00	26.21	E	O
	ATOM	7992	N	ASN	E	452	-28.437	45.451	43.134	1.00	21.20	E	N
	ATOM	7993	CA	ASN	E	452	-27.512	46.579	43.284	1.00	17.69	E	C
	ATOM	7994	CB	ASN	E	452	-28.205	47.744	43.974	1.00	15.58	E	C
	ATOM	7995	CG	ASN	E	452	-29.092	48.519	43.039	1.00	16.32	E	C
50	ATOM	7996	OD1	ASN	E	452	-30.128	48.027	42.604	1.00	15.94	E	O
	ATOM	7997	ND2	ASN	E	452	-28.690	49.743	42.722	1.00	14.59	E	N
	ATOM	7998	C	ASN	E	452	-26.236	46.247	44.051	1.00	15.75	E	C
	ATOM	7999	O	ASN	E	452	-25.539	47.150	44.514	1.00	11.22	E	O
	ATOM	8000	N	MET	E	453	-25.933	44.958	44.180	1.00	13.34	E	N
55	ATOM	8001	CA	MET	E	453	-24.734	44.518	44.880	1.00	12.94	E	C
	ATOM	8002	CB	MET	E	453	-25.083	44.035	46.292	1.00	12.53	E	C
	ATOM	8003	CG	MET	E	453	-25.215	45.128	47.331	1.00	18.90	E	C
	ATOM	8004	SD	MET	E	453	-25.535	44.458	48.979	1.00	24.46	E	S
	ATOM	8005	CE	MET	E	453	-25.051	45.858	50.013	1.00	23.71	E	C
60	ATOM	8006	C	MET	E	453	-24.084	43.368	44.130	1.00	13.28	E	C
	ATOM	8007	O	MET	E	453	-24.781	42.495	43.635	1.00	14.12	E	O
	ATOM	8008	N	THR	E	454	-22.757	43.391	44.023	1.00	13.27	E	N
	ATOM	8009	CA	THR	E	454	-22.001	42.307	43.397	1.00	13.43	E	C
	ATOM	8010	CB	THR	E	454	-21.297	42.716	42.059	1.00	15.15	E	C
65	ATOM	8011	OG1	THR	E	454	-20.759	44.040	42.149	1.00	16.55	E	O
	ATOM	8012	CG2	THR	E	454	-22.300	42.665	40.915	1.00	9.69	E	C
	ATOM	8013	C	THR	E	454	-20.980	41.961	44.467	1.00	13.97	E	C
	ATOM	8014	O	THR	E	454	-20.647	42.809	45.292	1.00	14.77	E	O

	ATOM	8015	N	TRP	E	455	-20.473	40.735	44.452	1.00	14.73	E	N
	ATOM	8016	CA	TRP	E	455	-19.569	40.284	45.497	1.00	12.68	E	C
	ATOM	8017	CB	TRP	E	455	-20.260	39.152	46.263	1.00	14.65	E	C
	ATOM	8018	CG	TRP	E	455	-21.598	39.554	46.803	1.00	13.97	E	C
5	ATOM	8019	CD2	TRP	E	455	-21.871	40.055	48.114	1.00	13.92	E	C
	ATOM	8020	CE2	TRP	E	455	-23.250	40.358	48.170	1.00	12.98	E	C
	ATOM	8021	CE3	TRP	E	455	-21.082	40.279	49.247	1.00	12.87	E	C
	ATOM	8022	CD1	TRP	E	455	-22.790	39.566	46.133	1.00	12.20	E	C
10	ATOM	8023	NE1	TRP	E	455	-23.791	40.049	46.947	1.00	11.63	E	N
	ATOM	8024	CZ2	TRP	E	455	-23.856	40.874	49.315	1.00	13.80	E	C
	ATOM	8025	CZ3	TRP	E	455	-21.686	40.792	50.386	1.00	17.79	E	C
	ATOM	8026	CH2	TRP	E	455	-23.062	41.084	50.410	1.00	15.37	E	C
	ATOM	8027	C	TRP	E	455	-18.163	39.841	45.138	1.00	13.56	E	C
15	ATOM	8028	O	TRP	E	455	-17.910	39.361	44.038	1.00	14.68	E	O
	ATOM	8029	N	MET	E	456	-17.265	39.989	46.112	1.00	13.89	E	N
	ATOM	8030	CA	MET	E	456	-15.862	39.602	45.993	1.00	13.27	E	C
	ATOM	8031	CB	MET	E	456	-14.980	40.826	45.783	1.00	11.69	E	C
	ATOM	8032	CG	MET	E	456	-15.326	41.645	44.563	1.00	13.32	E	C
20	ATOM	8033	SD	MET	E	456	-14.236	43.078	44.397	1.00	19.11	E	S
	ATOM	8034	CE	MET	E	456	-12.647	42.375	44.761	1.00	12.48	E	C
	ATOM	8035	C	MET	E	456	-15.429	38.919	47.284	1.00	14.08	E	C
	ATOM	8036	O	MET	E	456	-16.132	38.978	48.289	1.00	12.67	E	O
	ATOM	8037	N	ILE	E	457	-14.272	38.269	47.251	1.00	14.96	E	N
25	ATOM	8038	CA	ILE	E	457	-13.740	37.603	48.431	1.00	14.22	E	C
	ATOM	8039	CB	ILE	E	457	-13.546	36.085	48.197	1.00	15.76	E	C
	ATOM	8040	CG2	ILE	E	457	-12.406	35.547	49.060	1.00	12.69	E	C
	ATOM	8041	CG1	ILE	E	457	-14.815	35.342	48.605	1.00	17.51	E	C
	ATOM	8042	CD1	ILE	E	457	-15.483	34.664	47.473	1.00	20.18	E	C
30	ATOM	8043	C	ILE	E	457	-12.407	38.229	48.817	1.00	13.87	E	C
	ATOM	8044	O	ILE	E	457	-11.581	38.535	47.961	1.00	16.54	E	O
	ATOM	8045	N	GLN	E	458	-12.206	38.432	50.111	1.00	13.71	E	N
	ATOM	8046	CA	GLN	E	458	-10.971	39.023	50.597	1.00	13.41	E	C
	ATOM	8047	CB	GLN	E	458	-11.264	40.323	51.349	1.00	13.80	E	C
35	ATOM	8048	CG	GLN	E	458	-12.221	40.143	52.514	1.00	17.65	E	C
	ATOM	8049	CD	GLN	E	458	-12.477	41.424	53.298	1.00	22.20	E	C
	ATOM	8050	OE1	GLN	E	458	-12.308	42.536	52.788	1.00	21.56	E	O
	ATOM	8051	NE2	GLN	E	458	-12.895	41.269	54.549	1.00	22.18	E	N
	ATOM	8052	C	GLN	E	458	-10.305	38.040	51.538	1.00	13.67	E	C
40	ATOM	8053	O	GLN	E	458	-10.976	37.359	52.316	1.00	13.80	E	O
	ATOM	8054	N	VAL	E	459	-8.988	37.942	51.450	1.00	11.28	E	N
	ATOM	8055	CA	VAL	E	459	-8.273	37.066	52.341	1.00	14.75	E	C
	ATOM	8056	CB	VAL	E	459	-7.632	35.847	51.585	1.00	14.19	E	C
	ATOM	8057	CG1	VAL	E	459	-8.044	35.866	50.139	1.00	15.40	E	C
45	ATOM	8058	CG2	VAL	E	459	-6.117	35.825	51.742	1.00	14.50	E	C
	ATOM	8059	C	VAL	E	459	-7.243	37.937	53.049	1.00	16.71	E	C
	ATOM	8060	O	VAL	E	459	-6.277	38.402	52.447	1.00	18.77	E	O
	ATOM	8061	N	PRO	E	460	-7.487	38.227	54.341	1.00	20.70	E	N
	ATOM	8062	CD	PRO	E	460	-8.666	37.820	55.128	1.00	16.73	E	C
50	ATOM	8063	CA	PRO	E	460	-6.566	39.055	55.126	1.00	20.32	E	C
	ATOM	8064	CB	PRO	E	460	-7.257	39.170	56.482	1.00	18.77	E	C
	ATOM	8065	CG	PRO	E	460	-8.711	38.848	56.202	1.00	18.07	E	C
	ATOM	8066	C	PRO	E	460	-5.201	38.392	55.221	1.00	19.24	E	C
	ATOM	8067	O	PRO	E	460	-5.107	37.176	55.321	1.00	21.20	E	O
55	ATOM	8068	N	ARG	E	461	-4.144	39.192	55.168	1.00	19.92	E	N
	ATOM	8069	CA	ARG	E	461	-2.792	38.658	55.242	1.00	21.95	E	C
	ATOM	8070	CB	ARG	E	461	-1.820	39.589	54.504	1.00	18.94	E	C
	ATOM	8071	CG	ARG	E	461	-2.256	39.964	53.100	1.00	16.07	E	C
	ATOM	8072	CD	ARG	E	461	-1.138	40.662	52.321	1.00	15.62	E	C
60	ATOM	8073	NE	ARG	E	461	-0.862	41.998	52.840	1.00	12.29	E	N
	ATOM	8074	CZ	ARG	E	461	-1.596	43.073	52.574	1.00	13.49	E	C
	ATOM	8075	NH1	ARG	E	461	-2.658	42.985	51.790	1.00	15.37	E	N
	ATOM	8076	NH2	ARG	E	461	-1.280	44.243	53.114	1.00	14.80	E	N
	ATOM	8077	C	ARG	E	461	-2.378	38.518	56.709	1.00	24.94	E	C
65	ATOM	8078	O	ARG	E	461	-1.525	39.268	57.211	1.00	25.13	E	O
	ATOM	8079	N	ILE	E	462	-2.990	37.556	57.396	1.00	24.89	E	N
	ATOM	8080	CA	ILE	E	462	-2.690	37.329	58.804	1.00	22.11	E	C
	ATOM	8081	CB	ILE	E	462	-3.909	37.677	59.689	1.00	19.07	E	C
	ATOM	8082	CG2	ILE	E	462	-4.284	39.156	59.510	1.00	13.28	E	C

	ATOM	8083	CG1	ILE	E	462	-5.086	36.772	59.329	1.00	16.21	E	C
	ATOM	8084	CD1	ILE	E	462	-6.338	37.047	60.142	1.00	15.61	E	C
	ATOM	8085	C	ILE	E	462	-2.254	35.891	59.078	1.00	23.77	E	C
5	ATOM	8086	O	ILE	E	462	-2.682	35.274	60.056	1.00	25.25	E	O
	ATOM	8087	N	TYR	E	463	-1.397	35.358	58.212	1.00	24.16	E	N
	ATOM	8088	CA	TYR	E	463	-0.907	33.997	58.381	1.00	24.14	E	C
	ATOM	8089	CB	TYR	E	463	0.068	33.634	57.260	1.00	23.82	E	C
	ATOM	8090	CG	TYR	E	463	1.033	32.527	57.625	1.00	23.27	E	C
10	ATOM	8091	CD1	TYR	E	463	0.693	31.187	57.437	1.00	22.24	E	C
	ATOM	8092	CE1	TYR	E	463	1.575	30.159	57.793	1.00	22.73	E	C
	ATOM	8093	CD2	TYR	E	463	2.283	32.819	58.176	1.00	22.92	E	C
	ATOM	8094	CE2	TYR	E	463	3.174	31.802	58.534	1.00	21.40	E	C
	ATOM	8095	CZ	TYR	E	463	2.814	30.478	58.343	1.00	23.26	E	C
15	ATOM	8096	OH	TYR	E	463	3.691	29.482	58.708	1.00	23.81	E	O
	ATOM	8097	C	TYR	E	463	-0.201	33.885	59.722	1.00	26.84	E	C
	ATOM	8098	O	TYR	E	463	-0.407	32.922	60.467	1.00	27.89	E	O
	ATOM	8099	N	ASP	E	464	0.631	34.878	60.028	1.00	26.50	E	N
	ATOM	8100	CA	ASP	E	464	1.381	34.896	61.279	1.00	26.05	E	C
20	ATOM	8101	CB	ASP	E	464	2.161	36.216	61.409	1.00	27.11	E	C
	ATOM	8102	CG	ASP	E	464	1.283	37.449	61.219	1.00	30.05	E	C
	ATOM	8103	OD1	ASP	E	464	1.750	38.558	61.542	1.00	31.84	E	O
	ATOM	8104	OD2	ASP	E	464	0.131	37.320	60.751	1.00	32.37	E	O
	ATOM	8105	C	ASP	E	464	0.482	34.689	62.501	1.00	26.05	E	C
25	ATOM	8106	O	ASP	E	464	0.891	34.074	63.482	1.00	26.89	E	O
	ATOM	8107	N	VAL	E	465	-0.746	35.191	62.441	1.00	27.19	E	N
	ATOM	8108	CA	VAL	E	465	-1.676	35.042	63.556	1.00	26.22	E	C
	ATOM	8109	CB	VAL	E	465	-2.888	35.968	63.381	1.00	24.76	E	C
	ATOM	8110	CG1	VAL	E	465	-3.955	35.645	64.410	1.00	27.71	E	C
30	ATOM	8111	CG2	VAL	E	465	-2.453	37.401	63.522	1.00	25.37	E	C
	ATOM	8112	C	VAL	E	465	-2.163	33.596	63.683	1.00	30.84	E	C
	ATOM	8113	O	VAL	E	465	-2.169	33.029	64.781	1.00	30.59	E	O
	ATOM	8114	N	PHE	E	466	-2.567	33.006	62.556	1.00	32.08	E	N
35	ATOM	8115	CA	PHE	E	466	-3.056	31.628	62.538	1.00	31.12	E	C
	ATOM	8116	CB	PHE	E	466	-3.656	31.288	61.168	1.00	28.28	E	C
	ATOM	8117	CG	PHE	E	466	-4.921	32.031	60.861	1.00	28.98	E	C
	ATOM	8118	CD1	PHE	E	466	-5.869	32.262	61.853	1.00	29.84	E	C
	ATOM	8119	CD2	PHE	E	466	-5.151	32.533	59.587	1.00	30.10	E	C
	ATOM	8120	CE1	PHE	E	466	-7.028	32.988	61.582	1.00	31.76	E	C
40	ATOM	8121	CE2	PHE	E	466	-6.307	33.261	59.304	1.00	30.16	E	C
	ATOM	8122	CZ	PHE	E	466	-7.246	33.490	60.305	1.00	30.82	E	C
	ATOM	8123	C	PHE	E	466	-1.939	30.646	62.855	1.00	30.68	E	C
	ATOM	8124	O	PHE	E	466	-2.161	29.620	63.491	1.00	32.00	E	O
	ATOM	8125	N	ARG	E	467	-0.735	30.969	62.408	1.00	31.02	E	N
45	ATOM	8126	CA	ARG	E	467	0.417	30.109	62.636	1.00	33.96	E	C
	ATOM	8127	CB	ARG	E	467	1.593	30.588	61.784	1.00	32.86	E	C
	ATOM	8128	CG	ARG	E	467	2.878	29.839	62.036	1.00	32.39	E	C
	ATOM	8129	CD	ARG	E	467	2.770	28.390	61.598	1.00	35.83	E	C
	ATOM	8130	NE	ARG	E	467	3.982	27.653	61.940	1.00	41.47	E	N
	ATOM	8131	CZ	ARG	E	467	4.344	27.362	63.187	1.00	46.10	E	C
50	ATOM	8132	NH1	ARG	E	467	3.583	27.747	64.210	1.00	47.42	E	N
	ATOM	8133	NH2	ARG	E	467	5.482	26.716	63.416	1.00	46.33	E	N
	ATOM	8134	C	ARG	E	467	0.844	30.049	64.106	1.00	36.66	E	C
	ATOM	8135	O	ARG	E	467	1.191	28.980	64.621	1.00	38.61	E	O
55	ATOM	8136	N	SER	E	468	0.829	31.196	64.780	1.00	36.68	E	N
	ATOM	8137	CA	SER	E	468	1.234	31.255	66.181	1.00	35.81	E	C
	ATOM	8138	CB	SER	E	468	1.412	32.716	66.614	1.00	34.14	E	C
	ATOM	8139	OG	SER	E	468	0.287	33.500	66.243	1.00	35.36	E	O
	ATOM	8140	C	SER	E	468	0.212	30.555	67.078	1.00	36.40	E	C
60	ATOM	8141	O	SER	E	468	0.526	30.178	68.208	1.00	37.15	E	O
	ATOM	8142	N	LYS	E	469	-1.006	30.390	66.568	1.00	34.25	E	N
	ATOM	8143	CA	LYS	E	469	-2.080	29.728	67.300	1.00	30.63	E	C
	ATOM	8144	CB	LYS	E	469	-3.430	30.353	66.942	1.00	32.14	E	C
	ATOM	8145	CG	LYS	E	469	-3.875	31.490	67.847	1.00	34.84	E	C
65	ATOM	8146	CD	LYS	E	469	-5.229	32.034	67.400	1.00	38.19	E	C
	ATOM	8147	CE	LYS	E	469	-5.670	33.212	68.252	1.00	39.08	E	C
	ATOM	8148	NZ	LYS	E	469	-4.730	34.360	68.144	1.00	41.66	E	N
	ATOM	8149	C	LYS	E	469	-2.082	28.269	66.872	1.00	32.07	E	C
	ATOM	8150	O	LYS	E	469	-2.958	27.490	67.251	1.00	32.66	E	O

	ATOM	8151	N	ASN	E 470	-1.096	27.907	66.062	1.00	33.18	E	N
	ATOM	8152	CA	ASN	E 470	-0.976	26.546	65.564	1.00	33.63	E	C
	ATOM	8153	CB	ASN	E 470	-0.626	25.614	66.714	1.00	36.64	E	C
5	ATOM	8154	CG	ASN	E 470	0.764	25.886	67.260	1.00	41.29	E	C
	ATOM	8155	OD1	ASN	E 470	1.767	25.665	66.571	1.00	40.02	E	O
	ATOM	8156	ND2	ASN	E 470	0.835	26.384	68.499	1.00	43.99	E	N
	ATOM	8157	C	ASN	E 470	-2.237	26.079	64.852	1.00	33.13	E	C
	ATOM	8158	O	ASN	E 470	-2.640	24.922	64.951	1.00	31.58	E	O
10	ATOM	8159	N	PHE	E 471	-2.854	27.004	64.127	1.00	35.04	E	N
	ATOM	8160	CA	PHE	E 471	-4.049	26.716	63.351	1.00	34.29	E	C
	ATOM	8161	CB	PHE	E 471	-4.870	27.992	63.157	1.00	34.04	E	C
	ATOM	8162	CG	PHE	E 471	-5.840	28.265	64.261	1.00	35.03	E	C
	ATOM	8163	CD1	PHE	E 471	-5.970	27.385	65.331	1.00	37.58	E	C
15	ATOM	8164	CD2	PHE	E 471	-6.646	29.399	64.221	1.00	38.50	E	C
	ATOM	8165	CE1	PHE	E 471	-6.894	27.629	66.351	1.00	40.66	E	C
	ATOM	8166	CE2	PHE	E 471	-7.575	29.657	65.232	1.00	41.62	E	C
	ATOM	8167	CZ	PHE	E 471	-7.700	28.770	66.302	1.00	41.34	E	C
	ATOM	8168	C	PHE	E 471	-3.578	26.202	61.993	1.00	33.69	E	C
20	ATOM	8169	O	PHE	E 471	-4.347	25.589	61.250	1.00	35.68	E	O
	ATOM	8170	N	LEU	E 472	-2.307	26.458	61.681	1.00	30.67	E	N
	ATOM	8171	CA	LEU	E 472	-1.712	26.041	60.414	1.00	29.59	E	C
	ATOM	8172	CB	LEU	E 472	-1.777	27.181	59.379	1.00	29.26	E	C
	ATOM	8173	CG	LEU	E 472	-3.123	27.876	59.151	1.00	27.28	E	C
25	ATOM	8174	CD1	LEU	E 472	-2.916	29.267	58.557	1.00	26.39	E	C
	ATOM	8175	CD2	LEU	E 472	-3.961	27.020	58.229	1.00	26.15	E	C
	ATOM	8176	C	LEU	E 472	-0.256	25.652	60.617	1.00	29.21	E	C
	ATOM	8177	O	LEU	E 472	0.436	26.223	61.460	1.00	30.36	E	O
	ATOM	8178	N	PRO	E 473	0.232	24.672	59.841	1.00	27.45	E	N
30	ATOM	8179	CD	PRO	E 473	-0.502	23.892	58.829	1.00	23.96	E	C
	ATOM	8180	CA	PRO	E 473	1.625	24.234	59.963	1.00	28.96	E	C
	ATOM	8181	CB	PRO	E 473	1.589	22.806	59.442	1.00	25.25	E	C
	ATOM	8182	CG	PRO	E 473	0.475	22.809	58.439	1.00	23.20	E	C
	ATOM	8183	C	PRO	E 473	2.601	25.100	59.160	1.00	32.53	E	C
35	ATOM	8184	O	PRO	E 473	3.785	25.206	59.508	1.00	35.84	E	O
	ATOM	8185	N	HIS	E 474	2.100	25.712	58.085	1.00	32.82	E	N
	ATOM	8186	CA	HIS	E 474	2.920	26.551	57.210	1.00	29.72	E	C
	ATOM	8187	CB	HIS	E 474	3.841	25.662	56.382	1.00	25.66	E	C
	ATOM	8188	CG	HIS	E 474	3.114	24.583	55.647	1.00	25.75	E	C
40	ATOM	8189	CD2	HIS	E 474	2.062	24.640	54.795	1.00	24.97	E	C
	ATOM	8190	ND1	HIS	E 474	3.435	23.248	55.770	1.00	26.10	E	N
	ATOM	8191	CE1	HIS	E 474	2.612	22.530	55.025	1.00	25.19	E	C
	ATOM	8192	NE2	HIS	E 474	1.770	23.350	54.424	1.00	23.21	E	N
	ATOM	8193	C	HIS	E 474	2.010	27.356	56.279	1.00	28.85	E	C
45	ATOM	8194	O	HIS	E 474	0.788	27.209	56.325	1.00	27.33	E	O
	ATOM	8195	N	PHE	E 475	2.610	28.185	55.426	1.00	28.91	E	N
	ATOM	8196	CA	PHE	E 475	1.854	29.027	54.491	1.00	27.23	E	C
	ATOM	8197	CB	PHE	E 475	2.778	30.074	53.867	1.00	24.66	E	C
	ATOM	8198	CG	PHE	E 475	2.055	31.161	53.117	1.00	24.91	E	C
50	ATOM	8199	CD1	PHE	E 475	2.234	31.314	51.738	1.00	23.27	E	C
	ATOM	8200	CD2	PHE	E 475	1.230	32.059	53.790	1.00	23.07	E	C
	ATOM	8201	CE1	PHE	E 475	1.606	32.348	51.039	1.00	20.96	E	C
	ATOM	8202	CE2	PHE	E 475	0.595	33.094	53.104	1.00	23.17	E	C
	ATOM	8203	CZ	PHE	E 475	0.786	33.239	51.720	1.00	23.89	E	C
55	ATOM	8204	C	PHE	E 475	1.182	28.220	53.381	1.00	26.44	E	C
	ATOM	8205	O	PHE	E 475	0.087	28.566	52.922	1.00	23.82	E	O
	ATOM	8206	N	GLY	E 476	1.844	27.149	52.952	1.00	24.31	E	N
	ATOM	8207	CA	GLY	E 476	1.291	26.317	51.899	1.00	24.63	E	C
	ATOM	8208	C	GLY	E 476	-0.100	25.802	52.219	1.00	24.43	E	C
60	ATOM	8209	O	GLY	E 476	-0.934	25.646	51.323	1.00	23.69	E	O
	ATOM	8210	N	LYS	E 477	-0.365	25.544	53.496	1.00	23.74	E	N
	ATOM	8211	CA	LYS	E 477	-1.669	25.034	53.904	1.00	20.09	E	C
	ATOM	8212	CB	LYS	E 477	-1.574	24.352	55.267	1.00	22.25	E	C
	ATOM	8213	CG	LYS	E 477	-2.907	23.839	55.790	1.00	25.48	E	C
65	ATOM	8214	CD	LYS	E 477	-3.306	22.503	55.167	1.00	26.12	E	C
	ATOM	8215	CE	LYS	E 477	-4.766	22.184	55.478	1.00	29.47	E	C
	ATOM	8216	NZ	LYS	E 477	-5.232	20.936	54.809	1.00	31.73	E	N
	ATOM	8217	C	LYS	E 477	-2.715	26.129	53.944	1.00	19.14	E	C
	ATOM	8218	O	LYS	E 477	-3.911	25.847	53.942	1.00	20.82	E	O

	ATOM	8219	N	MET	E	478	-2.274	27.383	53.988	1.00	20.46	E	N
	ATOM	8220	CA	MET	E	478	-3.214	28.500	53.993	1.00	18.55	E	C
	ATOM	8221	CB	MET	E	478	-2.546	29.787	54.473	1.00	19.00	E	C
	ATOM	8222	CG	MET	E	478	-3.535	30.922	54.692	1.00	16.52	E	C
5	ATOM	8223	SD	MET	E	478	-2.751	32.475	55.105	1.00	22.96	E	S
	ATOM	8224	CE	MET	E	478	-4.148	33.557	55.288	1.00	17.76	E	C
	ATOM	8225	C	MET	E	478	-3.689	28.696	52.563	1.00	20.31	E	C
	ATOM	8226	O	MET	E	478	-4.870	28.969	52.312	1.00	17.81	E	O
10	ATOM	8227	N	LEU	E	479	-2.750	28.555	51.630	1.00	20.20	E	N
	ATOM	8228	CA	LEU	E	479	-3.038	28.705	50.211	1.00	20.52	E	C
	ATOM	8229	CB	LEU	E	479	-1.742	28.617	49.400	1.00	16.99	E	C
	ATOM	8230	CG	LEU	E	479	-0.811	29.832	49.386	1.00	13.26	E	C
	ATOM	8231	CD1	LEU	E	479	0.485	29.466	48.671	1.00	12.19	E	C
	ATOM	8232	CD2	LEU	E	479	-1.481	30.993	48.691	1.00	11.97	E	C
15	ATOM	8233	C	LEU	E	479	-3.988	27.585	49.800	1.00	21.63	E	C
	ATOM	8234	O	LEU	E	479	-4.973	27.806	49.089	1.00	21.31	E	O
	ATOM	8235	N	GLU	E	480	-3.695	26.380	50.271	1.00	24.01	E	N
	ATOM	8236	CA	GLU	E	480	-4.525	25.218	49.951	1.00	26.68	E	C
20	ATOM	8237	CB	GLU	E	480	-3.928	23.956	50.582	1.00	24.28	E	C
	ATOM	8238	CG	GLU	E	480	-4.864	22.754	50.591	1.00	30.75	E	C
	ATOM	8239	CD	GLU	E	480	-4.138	21.445	50.886	1.00	34.40	E	C
	ATOM	8240	OE1	GLU	E	480	-2.999	21.491	51.404	1.00	35.90	E	O
	ATOM	8241	OE2	GLU	E	480	-4.704	20.368	50.599	1.00	35.33	E	O
25	ATOM	8242	C	GLU	E	480	-5.970	25.403	50.420	1.00	24.34	E	C
	ATOM	8243	O	GLU	E	480	-6.907	25.028	49.718	1.00	24.49	E	O
	ATOM	8244	N	ASN	E	481	-6.144	25.980	51.606	1.00	23.68	E	N
	ATOM	8245	CA	ASN	E	481	-7.476	26.209	52.166	1.00	20.98	E	C
	ATOM	8246	CB	ASN	E	481	-7.374	26.683	53.617	1.00	22.62	E	C
30	ATOM	8247	CG	ASN	E	481	-6.958	25.582	54.566	1.00	23.39	E	C
	ATOM	8248	OD1	ASN	E	481	-6.318	25.847	55.582	1.00	24.66	E	O
	ATOM	8249	ND2	ASN	E	481	-7.321	24.340	54.245	1.00	23.07	E	N
	ATOM	8250	C	ASN	E	481	-8.228	27.261	51.375	1.00	20.27	E	C
	ATOM	8251	O	ASN	E	481	-9.453	27.194	51.234	1.00	18.76	E	O
35	ATOM	8252	N	VAL	E	482	-7.493	28.248	50.875	1.00	18.57	E	N
	ATOM	8253	CA	VAL	E	482	-8.103	29.317	50.100	1.00	17.27	E	C
	ATOM	8254	CB	VAL	E	482	-7.142	30.533	49.958	1.00	18.82	E	C
	ATOM	8255	CG1	VAL	E	482	-7.810	31.634	49.144	1.00	16.94	E	C
	ATOM	8256	CG2	VAL	E	482	-6.755	31.069	51.333	1.00	16.10	E	C
40	ATOM	8257	C	VAL	E	482	-8.505	28.856	48.699	1.00	17.29	E	C
	ATOM	8258	O	VAL	E	482	-9.618	29.135	48.239	1.00	17.33	E	O
	ATOM	8259	N	PHE	E	483	-7.623	28.118	48.033	1.00	16.15	E	N
	ATOM	8260	CA	PHE	E	483	-7.904	27.702	46.666	1.00	18.60	E	C
	ATOM	8261	CB	PHE	E	483	-6.680	28.002	45.801	1.00	17.40	E	C
45	ATOM	8262	CG	PHE	E	483	-6.324	29.458	45.751	1.00	14.49	E	C
	ATOM	8263	CD1	PHE	E	483	-7.133	30.361	45.078	1.00	12.28	E	C
	ATOM	8264	CD2	PHE	E	483	-5.195	29.930	46.407	1.00	14.70	E	C
	ATOM	8265	CE1	PHE	E	483	-6.824	31.712	45.061	1.00	12.97	E	C
	ATOM	8266	CE2	PHE	E	483	-4.879	31.280	46.395	1.00	12.94	E	C
50	ATOM	8267	CZ	PHE	E	483	-5.696	32.173	45.723	1.00	13.30	E	C
	ATOM	8268	C	PHE	E	483	-8.397	26.292	46.355	1.00	19.61	E	C
	ATOM	8269	O	PHE	E	483	-9.207	26.117	45.445	1.00	18.96	E	O
	ATOM	8270	N	MET	E	484	-7.919	25.288	47.078	1.00	22.17	E	N
	ATOM	8271	CA	MET	E	484	-8.333	23.913	46.798	1.00	24.24	E	C
55	ATOM	8272	CB	MET	E	484	-7.733	22.961	47.838	1.00	27.64	E	C
	ATOM	8273	CG	MET	E	484	-7.862	21.483	47.480	1.00	31.59	E	C
	ATOM	8274	SD	MET	E	484	-6.956	21.000	45.994	1.00	37.76	E	S
	ATOM	8275	CE	MET	E	484	-5.300	20.745	46.642	1.00	33.63	E	C
	ATOM	8276	C	MET	E	484	-9.852	23.704	46.715	1.00	23.74	E	C
60	ATOM	8277	O	MET	E	484	-10.356	23.124	45.752	1.00	25.18	E	O
	ATOM	8278	N	PRO	E	485	-10.605	24.168	47.721	1.00	24.36	E	N
	ATOM	8279	CD	PRO	E	485	-10.186	24.859	48.951	1.00	24.40	E	C
	ATOM	8280	CA	PRO	E	485	-12.058	23.981	47.672	1.00	24.77	E	C
	ATOM	8281	CB	PRO	E	485	-12.556	24.650	48.955	1.00	22.16	E	C
65	ATOM	8282	CG	PRO	E	485	-11.368	24.672	49.854	1.00	23.42	E	C
	ATOM	8283	C	PRO	E	485	-12.734	24.558	46.431	1.00	25.62	E	C
	ATOM	8284	O	PRO	E	485	-13.745	24.021	45.967	1.00	24.81	E	O
	ATOM	8285	N	VAL	E	486	-12.186	25.652	45.901	1.00	25.28	E	N
	ATOM	8286	CA	VAL	E	486	-12.762	26.281	44.717	1.00	23.27	E	C

	ATOM	8287	CB	VAL	E	486	-12.257	27.716	44.544	1.00	23.13	E	C
	ATOM	8288	CG1	VAL	E	486	-13.277	28.518	43.773	1.00	24.07	E	C
	ATOM	8289	CG2	VAL	E	486	-12.023	28.352	45.896	1.00	24.86	E	C
5	ATOM	8290	C	VAL	E	486	-12.444	25.483	43.454	1.00	22.63	E	C
	ATOM	8291	O	VAL	E	486	-13.270	25.392	42.545	1.00	24.07	E	O
	ATOM	8292	N	PHE	E	487	-11.246	24.915	43.399	1.00	20.85	E	N
	ATOM	8293	CA	PHE	E	487	-10.838	24.101	42.263	1.00	21.71	E	C
	ATOM	8294	CB	PHE	E	487	-9.380	23.668	42.412	1.00	20.65	E	C
10	ATOM	8295	CG	PHE	E	487	-8.394	24.638	41.824	1.00	22.46	E	C
	ATOM	8296	CD1	PHE	E	487	-7.923	25.711	42.572	1.00	24.17	E	C
	ATOM	8297	CD2	PHE	E	487	-7.941	24.485	40.516	1.00	25.10	E	C
	ATOM	8298	CE1	PHE	E	487	-7.010	26.626	42.025	1.00	22.54	E	C
	ATOM	8299	CE2	PHE	E	487	-7.032	25.390	39.959	1.00	23.97	E	C
15	ATOM	8300	CZ	PHE	E	487	-6.567	26.462	40.717	1.00	22.70	E	C
	ATOM	8301	C	PHE	E	487	-11.733	22.866	42.242	1.00	24.09	E	C
	ATOM	8302	O	PHE	E	487	-12.262	22.480	41.199	1.00	23.77	E	O
	ATOM	8303	N	GLU	E	488	-11.908	22.262	43.414	1.00	25.58	E	N
	ATOM	8304	CA	GLU	E	488	-12.735	21.072	43.558	1.00	27.39	E	C
20	ATOM	8305	CB	GLU	E	488	-12.775	20.629	45.025	1.00	32.60	E	C
	ATOM	8306	CG	GLU	E	488	-11.911	19.412	45.337	1.00	37.11	E	C
	ATOM	8307	CD	GLU	E	488	-11.330	19.449	46.749	1.00	43.18	E	C
	ATOM	8308	OE1	GLU	E	488	-11.878	20.181	47.609	1.00	44.72	E	O
	ATOM	8309	OE2	GLU	E	488	-10.324	18.742	47.000	1.00	42.94	E	O
25	ATOM	8310	C	GLU	E	488	-14.159	21.286	43.056	1.00	24.85	E	C
	ATOM	8311	O	GLU	E	488	-14.725	20.414	42.409	1.00	26.88	E	O
	ATOM	8312	N	ALA	E	489	-14.743	22.440	43.356	1.00	22.33	E	N
	ATOM	8313	CA	ALA	E	489	-16.105	22.729	42.912	1.00	21.57	E	C
	ATOM	8314	CB	ALA	E	489	-16.671	23.894	43.704	1.00	18.11	E	C
30	ATOM	8315	C	ALA	E	489	-16.144	23.041	41.412	1.00	24.48	E	C
	ATOM	8316	O	ALA	E	489	-17.208	22.999	40.783	1.00	22.27	E	O
	ATOM	8317	N	THR	E	490	-14.981	23.359	40.847	1.00	24.68	E	N
	ATOM	8318	CA	THR	E	490	-14.865	23.681	39.428	1.00	26.80	E	C
	ATOM	8319	CB	THR	E	490	-13.562	24.481	39.142	1.00	26.10	E	C
35	ATOM	8320	OG1	THR	E	490	-13.696	25.810	39.659	1.00	30.61	E	O
	ATOM	8321	CG2	THR	E	490	-13.288	25.565	37.648	1.00	23.30	E	C
	ATOM	8322	C	THR	E	490	-14.832	22.383	38.625	1.00	29.06	E	C
	ATOM	8323	O	THR	E	490	-15.508	22.237	37.605	1.00	27.24	E	O
	ATOM	8324	N	ILE	E	491	-14.036	21.440	39.108	1.00	29.88	E	N
40	ATOM	8325	CA	ILE	E	491	-13.883	20.147	38.471	1.00	28.69	E	C
	ATOM	8326	CB	ILE	E	491	-12.634	19.448	39.040	1.00	30.04	E	C
	ATOM	8327	CG2	ILE	E	491	-12.944	18.036	39.477	1.00	33.60	E	C
	ATOM	8328	CG1	ILE	E	491	-11.527	19.471	37.998	1.00	28.92	E	C
	ATOM	8329	CD1	ILE	E	491	-10.415	20.409	38.358	1.00	31.35	E	C
45	ATOM	8330	C	ILE	E	491	-15.129	19.271	38.648	1.00	30.39	E	C
	ATOM	8331	O	ILE	E	491	-15.576	18.629	37.700	1.00	32.22	E	O
	ATOM	8332	N	ASN	E	492	-15.692	19.255	39.855	1.00	28.45	E	N
	ATOM	8333	CA	ASN	E	492	-16.880	18.448	40.146	1.00	25.98	E	C
	ATOM	8334	CB	ASN	E	492	-16.529	17.363	41.165	1.00	25.94	E	C
50	ATOM	8335	CG	ASN	E	492	-15.398	16.462	40.688	1.00	28.42	E	C
	ATOM	8336	OD1	ASN	E	492	-15.455	15.904	39.589	1.00	25.92	E	O
	ATOM	8337	ND2	ASN	E	492	-14.359	16.317	41.515	1.00	28.17	E	N
	ATOM	8338	C	ASN	E	492	-18.025	19.306	40.682	1.00	25.69	E	C
	ATOM	8339	O	ASN	E	492	-18.394	19.209	41.849	1.00	25.53	E	O
55	ATOM	8340	N	PRO	E	493	-18.618	20.140	39.819	1.00	25.58	E	N
	ATOM	8341	CD	PRO	E	493	-18.279	20.290	38.394	1.00	25.33	E	C
	ATOM	8342	CA	PRO	E	493	-19.721	21.023	40.213	1.00	25.79	E	C
	ATOM	8343	CB	PRO	E	493	-20.036	21.809	38.937	1.00	24.57	E	C
	ATOM	8344	CG	PRO	E	493	-18.840	21.638	38.061	1.00	25.30	E	C
60	ATOM	8345	C	PRO	E	493	-20.960	20.331	40.770	1.00	26.31	E	C
	ATOM	8346	O	PRO	E	493	-21.738	20.939	41.506	1.00	26.67	E	O
	ATOM	8347	N	GLN	E	494	-21.159	19.069	40.417	1.00	26.93	E	N
	ATOM	8348	CA	GLN	E	494	-22.328	18.351	40.904	1.00	31.36	E	C
	ATOM	8349	CB	GLN	E	494	-22.621	17.155	40.003	1.00	34.43	E	C
65	ATOM	8350	CG	GLN	E	494	-22.789	17.536	38.546	1.00	40.35	E	C
	ATOM	8351	CD	GLN	E	494	-24.174	18.064	38.232	1.00	42.02	E	C
	ATOM	8352	OE1	GLN	E	494	-24.655	17.917	37.114	1.00	49.26	E	O
	ATOM	8353	NE2	GLN	E	494	-24.822	18.679	39.216	1.00	40.76	E	N
	ATOM	8354	C	GLN	E	494	-22.128	17.885	42.341	1.00	32.82	E	C

	ATOM	8355	O	GLN	E	494	-23.089	17.735	43.099	1.00	31.95	E	O
	ATOM	8356	N	ALA	E	495	-20.871	17.661	42.709	1.00	31.49	E	N
	ATOM	8357	CA	ALA	E	495	-20.535	17.223	44.055	1.00	29.49	E	C
5	ATOM	8358	CB	ALA	E	495	-19.128	16.657	44.072	1.00	26.90	E	C
	ATOM	8359	C	ALA	E	495	-20.641	18.404	45.014	1.00	29.09	E	C
	ATOM	8360	O	ALA	E	495	-20.956	18.237	46.190	1.00	29.34	E	O
	ATOM	8361	N	HIS	E	496	-20.383	19.601	44.495	1.00	29.28	E	N
	ATOM	8362	CA	HIS	E	496	-20.435	20.827	45.291	1.00	26.78	E	C
10	ATOM	8363	CB	HIS	E	496	-19.027	21.410	45.423	1.00	25.66	E	C
	ATOM	8364	CG	HIS	E	496	-17.992	20.394	45.793	1.00	27.47	E	C
	ATOM	8365	CD2	HIS	E	496	-16.923	19.916	45.112	1.00	30.55	E	C
	ATOM	8366	ND1	HIS	E	496	-17.999	19.732	47.004	1.00	30.66	E	N
	ATOM	8367	CE1	HIS	E	496	-16.979	18.892	47.049	1.00	30.66	E	C
	ATOM	8368	NE2	HIS	E	496	-16.311	18.984	45.916	1.00	29.24	E	N
15	ATOM	8369	C	HIS	E	496	-21.371	21.850	44.650	1.00	25.06	E	C
	ATOM	8370	O	HIS	E	496	-20.943	22.909	44.205	1.00	23.93	E	O
	ATOM	8371	N	PRO	E	497	-22.670	21.536	44.592	1.00	24.32	E	N
	ATOM	8372	CD	PRO	E	497	-23.263	20.279	45.076	1.00	23.20	E	C
20	ATOM	8373	CA	PRO	E	497	-23.679	22.420	44.002	1.00	24.09	E	C
	ATOM	8374	CB	PRO	E	497	-24.979	21.624	44.128	1.00	23.69	E	C
	ATOM	8375	CG	PRO	E	497	-24.712	20.619	45.192	1.00	22.43	E	C
	ATOM	8376	C	PRO	E	497	-23.818	23.812	44.606	1.00	26.08	E	C
	ATOM	8377	O	PRO	E	497	-23.846	24.801	43.874	1.00	28.51	E	O
25	ATOM	8378	N	GLU	E	498	-23.928	23.895	45.932	1.00	27.82	E	N
	ATOM	8379	CA	GLU	E	498	-24.091	25.186	46.608	1.00	22.75	E	C
	ATOM	8380	CB	GLU	E	498	-24.352	24.978	48.101	1.00	23.08	E	C
	ATOM	8381	CG	GLU	E	498	-25.638	25.638	48.583	1.00	27.54	E	C
	ATOM	8382	CD	GLU	E	498	-25.941	25.374	50.056	1.00	32.75	E	C
30	ATOM	8383	OE1	GLU	E	498	-25.026	24.972	50.810	1.00	33.67	E	O
	ATOM	8384	OE2	GLU	E	498	-27.107	25.570	50.463	1.00	35.24	E	O
	ATOM	8385	C	GLU	E	498	-22.883	26.093	46.411	1.00	20.88	E	C
	ATOM	8386	O	GLU	E	498	-23.024	27.290	46.151	1.00	20.19	E	O
	ATOM	8387	N	LEU	E	499	-21.693	25.522	46.530	1.00	19.43	E	N
35	ATOM	8388	CA	LEU	E	499	-20.480	26.298	46.346	1.00	19.75	E	C
	ATOM	8389	CB	LEU	E	499	-19.256	25.460	46.734	1.00	14.85	E	C
	ATOM	8390	CG	LEU	E	499	-17.887	26.092	46.469	1.00	17.03	E	C
	ATOM	8391	CD1	LEU	E	499	-17.847	27.515	47.019	1.00	13.14	E	C
	ATOM	8392	CD2	LEU	E	499	-16.808	25.233	47.108	1.00	14.87	E	C
40	ATOM	8393	C	LEU	E	499	-20.386	26.735	44.881	1.00	19.22	E	C
	ATOM	8394	O	LEU	E	499	-20.003	27.860	44.584	1.00	20.53	E	O
	ATOM	8395	N	SER	E	500	-20.748	25.834	43.975	1.00	19.09	E	N
	ATOM	8396	CA	SER	E	500	-20.707	26.112	42.541	1.00	21.05	E	C
	ATOM	8397	CB	SER	E	500	-21.199	24.893	41.745	1.00	19.96	E	C
45	ATOM	8398	OG	SER	E	500	-20.225	23.860	41.720	1.00	19.88	E	O
	ATOM	8399	C	SER	E	500	-21.574	27.315	42.203	1.00	22.46	E	C
	ATOM	8400	O	SER	E	500	-21.177	28.184	41.424	1.00	23.85	E	O
	ATOM	8401	N	VAL	E	501	-22.766	27.359	42.788	1.00	21.42	E	N
	ATOM	8402	CA	VAL	E	501	-23.694	28.454	42.547	1.00	20.88	E	C
50	ATOM	8403	CB	VAL	E	501	-25.058	28.157	43.197	1.00	18.64	E	C
	ATOM	8404	CG1	VAL	E	501	-25.863	29.436	43.360	1.00	18.25	E	C
	ATOM	8405	CG2	VAL	E	501	-25.812	27.162	42.350	1.00	15.62	E	C
	ATOM	8406	C	VAL	E	501	-23.122	29.749	43.121	1.00	23.38	E	C
	ATOM	8407	O	VAL	E	501	-23.169	30.803	42.486	1.00	23.62	E	O
55	ATOM	8408	N	PHE	E	502	-22.575	29.657	44.327	1.00	23.42	E	N
	ATOM	8409	CA	PHE	E	502	-21.995	30.810	44.995	1.00	21.51	E	C
	ATOM	8410	CB	PHE	E	502	-21.422	30.371	46.355	1.00	22.03	E	C
	ATOM	8411	CG	PHE	E	502	-20.766	31.480	47.144	1.00	15.40	E	C
	ATOM	8412	CD1	PHE	E	502	-21.446	32.656	47.417	1.00	14.32	E	C
60	ATOM	8413	CD2	PHE	E	502	-19.470	31.334	47.620	1.00	13.31	E	C
	ATOM	8414	CE1	PHE	E	502	-20.840	33.674	48.155	1.00	14.50	E	C
	ATOM	8415	CE2	PHE	E	502	-18.857	32.345	48.357	1.00	11.96	E	C
	ATOM	8416	CZ	PHE	E	502	-19.542	33.514	48.625	1.00	11.42	E	C
	ATOM	8417	C	PHE	E	502	-20.905	31.420	44.110	1.00	21.08	E	C
65	ATOM	8418	O	PHE	E	502	-20.888	32.631	43.878	1.00	20.50	E	O
	ATOM	8419	N	LEU	E	503	-20.011	30.572	43.610	1.00	19.81	E	N
	ATOM	8420	CA	LEU	E	503	-18.909	31.007	42.754	1.00	18.07	E	C
	ATOM	8421	CB	LEU	E	503	-18.090	29.801	42.312	1.00	14.19	E	C
	ATOM	8422	CG	LEU	E	503	-17.251	29.176	43.424	1.00	13.54	E	C

	ATOM	8423	CD1	LEU	E	503	-16.556	27.933	42.903	1.00	9.72	E	C
	ATOM	8424	CD2	LEU	E	503	-16.237	30.194	43.925	1.00	11.43	E	C
	ATOM	8425	C	LEU	E	503	-19.348	31.801	41.528	1.00	17.93	E	C
5	ATOM	8426	O	LEU	E	503	-18.556	32.535	40.949	1.00	21.14	E	O
	ATOM	8427	N	LYS	E	504	-20.601	31.654	41.122	1.00	19.14	E	N
	ATOM	8428	CA	LYS	E	504	-21.104	32.395	39.973	1.00	19.62	E	C
	ATOM	8429	CB	LYS	E	504	-22.390	31.761	39.448	1.00	17.72	E	C
	ATOM	8430	CG	LYS	E	504	-22.150	30.541	38.602	1.00	19.80	E	C
10	ATOM	8431	CD	LYS	E	504	-23.434	29.787	38.353	1.00	25.81	E	C
	ATOM	8432	CE	LYS	E	504	-24.302	30.487	37.327	1.00	26.88	E	C
	ATOM	8433	NZ	LYS	E	504	-25.668	29.894	37.318	1.00	32.68	E	N
	ATOM	8434	C	LYS	E	504	-21.395	33.829	40.384	1.00	20.83	E	C
	ATOM	8435	O	LYS	E	504	-21.611	34.691	39.532	1.00	21.16	E	O
15	ATOM	8436	N	HIS	E	505	-21.399	34.073	41.695	1.00	20.25	E	N
	ATOM	8437	CA	HIS	E	505	-21.685	35.392	42.248	1.00	15.06	E	C
	ATOM	8438	CB	HIS	E	505	-22.642	35.262	43.432	1.00	14.32	E	C
	ATOM	8439	CG	HIS	E	505	-24.026	34.848	43.041	1.00	17.05	E	C
	ATOM	8440	CD2	HIS	E	505	-24.534	33.637	42.711	1.00	17.50	E	C
20	ATOM	8441	ND1	HIS	E	505	-25.072	35.739	42.954	1.00	18.95	E	N
	ATOM	8442	CE1	HIS	E	505	-26.166	35.097	42.585	1.00	17.33	E	C
	ATOM	8443	NE2	HIS	E	505	-25.867	33.819	42.431	1.00	16.43	E	N
	ATOM	8444	C	HIS	E	505	-20.448	36.160	42.688	1.00	15.29	E	C
	ATOM	8445	O	HIS	E	505	-20.543	37.336	43.031	1.00	16.68	E	O
25	ATOM	8446	N	ILE	E	506	-19.295	35.494	42.683	1.00	14.48	E	N
	ATOM	8447	CA	ILE	E	506	-18.031	36.118	43.076	1.00	15.43	E	C
	ATOM	8448	CB	ILE	E	506	-17.088	35.099	43.769	1.00	11.27	E	C
	ATOM	8449	CG2	ILE	E	506	-15.735	35.724	44.027	1.00	8.82	E	C
	ATOM	8450	CG1	ILE	E	506	-17.715	34.611	45.080	1.00	11.69	E	C
30	ATOM	8451	CD1	ILE	E	506	-18.206	35.716	46.010	1.00	10.17	E	C
	ATOM	8452	C	ILE	E	506	-17.350	36.649	41.819	1.00	17.69	E	C
	ATOM	8453	O	ILE	E	506	-17.099	35.890	40.873	1.00	17.12	E	O
	ATOM	8454	N	THR	E	507	-17.056	37.951	41.814	1.00	16.30	E	N
	ATOM	8455	CA	THR	E	507	-16.431	38.603	40.669	1.00	12.46	E	C
35	ATOM	8456	CB	THR	E	507	-17.018	40.034	40.460	1.00	11.26	E	C
	ATOM	8457	OG1	THR	E	507	-16.580	40.907	41.510	1.00	13.62	E	O
	ATOM	8458	CG2	THR	E	507	-18.530	39.993	40.469	1.00	7.64	E	C
	ATOM	8459	C	THR	E	507	-14.905	38.680	40.766	1.00	13.93	E	C
	ATOM	8460	O	THR	E	507	-14.214	38.712	39.744	1.00	11.39	E	O
40	ATOM	8461	N	GLY	E	508	-14.371	38.697	41.986	1.00	13.70	E	N
	ATOM	8462	CA	GLY	E	508	-12.928	38.773	42.136	1.00	11.29	E	C
	ATOM	8463	C	GLY	E	508	-12.393	38.554	43.536	1.00	14.23	E	C
	ATOM	8464	O	GLY	E	508	-13.154	38.380	44.495	1.00	11.69	E	O
	ATOM	8465	N	PHE	E	509	-11.065	38.567	43.645	1.00	15.12	E	N
45	ATOM	8466	CA	PHE	E	509	-10.374	38.376	44.918	1.00	15.71	E	C
	ATOM	8467	CB	PHE	E	509	-9.369	37.237	44.798	1.00	16.10	E	C
	ATOM	8468	CG	PHE	E	509	-10.002	35.884	44.754	1.00	18.98	E	C
	ATOM	8469	CD1	PHE	E	509	-10.161	35.142	45.920	1.00	17.97	E	C
	ATOM	8470	CD2	PHE	E	509	-10.466	35.358	43.550	1.00	19.26	E	C
50	ATOM	8471	CE1	PHE	E	509	-10.775	33.890	45.893	1.00	19.46	E	C
	ATOM	8472	CE2	PHE	E	509	-11.083	34.106	43.509	1.00	19.74	E	C
	ATOM	8473	CZ	PHE	E	509	-11.239	33.370	44.686	1.00	19.79	E	C
	ATOM	8474	C	PHE	E	509	-9.644	39.632	45.385	1.00	16.84	E	C
	ATOM	8475	O	PHE	E	509	-9.107	40.388	44.569	1.00	16.70	E	O
55	ATOM	8476	N	ASP	E	510	-9.628	39.838	46.703	1.00	17.16	E	N
	ATOM	8477	CA	ASP	E	510	-8.968	40.985	47.323	1.00	13.81	E	C
	ATOM	8478	CB	ASP	E	510	-10.016	41.910	47.949	1.00	11.11	E	C
	ATOM	8479	CG	ASP	E	510	-9.497	43.315	48.180	1.00	12.23	E	C
	ATOM	8480	OD1	ASP	E	510	-8.263	43.509	48.174	1.00	17.97	E	O
60	ATOM	8481	OD2	ASP	E	510	-10.319	44.233	48.369	1.00	13.33	E	O
	ATOM	8482	C	ASP	E	510	-7.996	40.493	48.399	1.00	15.20	E	C
	ATOM	8483	O	ASP	E	510	-8.138	39.385	48.912	1.00	15.51	E	O
	ATOM	8484	N	SER	E	511	-7.004	41.312	48.729	1.00	15.92	E	N
	ATOM	8485	CA	SER	E	511	-6.016	40.973	49.752	1.00	17.76	E	C
65	ATOM	8486	CB	SER	E	511	-4.659	40.726	49.094	1.00	16.93	E	C
	ATOM	8487	OG	SER	E	511	-3.590	41.028	49.966	1.00	16.68	E	O
	ATOM	8488	C	SER	E	511	-5.948	42.159	50.720	1.00	19.83	E	C
	ATOM	8489	O	SER	E	511	-5.529	43.247	50.348	1.00	19.42	E	O
	ATOM	8490	N	VAL	E	512	-6.363	41.934	51.962	1.00	23.73	E	N

	ATOM	8491	CA	VAL	E	512	-6.414	42.987	52.979	1.00	23.42	E	C
	ATOM	8492	CB	VAL	E	512	-7.861	43.161	53.450	1.00	21.78	E	C
	ATOM	8493	CG1	VAL	E	512	-8.785	43.303	52.244	1.00	18.49	E	C
5	ATOM	8494	CG2	VAL	E	512	-8.283	41.945	54.251	1.00	21.45	E	C
	ATOM	8495	C	VAL	E	512	-5.527	42.729	54.201	1.00	27.23	E	C
	ATOM	8496	O	VAL	E	512	-5.007	41.627	54.381	1.00	26.02	E	O
	ATOM	8497	N	ASP	E	513	-5.378	43.748	55.048	1.00	32.68	E	N
	ATOM	8498	CA	ASP	E	513	-4.544	43.676	56.262	1.00	36.47	E	C
10	ATOM	8499	CB	ASP	E	513	-3.490	42.532	56.173	1.00	40.85	E	C
	ATOM	8500	CG	ASP	E	513	-2.483	42.514	57.372	1.00	44.35	E	C
	ATOM	8501	OD1	ASP	E	513	-2.913	42.718	58.538	1.00	44.48	E	O
	ATOM	8502	OD2	ASP	E	513	-1.260	42.285	57.148	1.00	39.15	E	O
	ATOM	8503	C	ASP	E	513	-3.802	44.995	56.372	1.00	33.24	E	C
15	ATOM	8504	O	ASP	E	513	-3.911	45.858	55.507	1.00	32.80	E	O
	ATOM	8505	N	ASP	E	514	-3.050	45.146	57.449	1.00	31.72	E	N
	ATOM	8506	CA	ASP	E	514	-2.254	46.334	57.640	1.00	28.85	E	C
	ATOM	8507	CB	ASP	E	514	-1.558	46.264	58.996	1.00	27.47	E	C
	ATOM	8508	CG	ASP	E	514	-0.892	47.557	59.369	1.00	28.93	E	C
20	ATOM	8509	OD1	ASP	E	514	-0.668	48.395	58.474	1.00	27.69	E	O
	ATOM	8510	OD2	ASP	E	514	-0.596	47.733	60.565	1.00	33.75	E	O
	ATOM	8511	C	ASP	E	514	-1.232	46.247	56.517	1.00	27.72	E	C
	ATOM	8512	O	ASP	E	514	-0.729	45.161	56.229	1.00	30.47	E	O
	ATOM	8513	N	GLU	E	515	-0.938	47.367	55.869	1.00	26.43	E	N
25	ATOM	8514	CA	GLU	E	515	0.046	47.373	54.789	1.00	24.42	E	C
	ATOM	8515	CB	GLU	E	515	-0.505	48.108	53.559	1.00	20.79	E	C
	ATOM	8516	CG	GLU	E	515	-0.148	47.449	52.230	1.00	17.07	E	C
	ATOM	8517	CD	GLU	E	515	-0.370	48.357	51.022	1.00	16.52	E	C
	ATOM	8518	OE1	GLU	E	515	-1.364	49.117	51.002	1.00	13.01	E	O
30	ATOM	8519	OE2	GLU	E	515	0.454	48.305	50.084	1.00	13.05	E	O
	ATOM	8520	C	GLU	E	515	1.324	48.052	55.261	1.00	24.63	E	C
	ATOM	8521	O	GLU	E	515	2.375	47.914	54.637	1.00	22.39	E	O
	ATOM	8522	N	SER	E	516	1.225	48.782	56.370	1.00	28.87	E	N
	ATOM	8523	CA	SER	E	516	2.368	49.509	56.932	1.00	32.34	E	C
35	ATOM	8524	CB	SER	E	516	1.890	50.632	57.861	1.00	29.10	E	C
	ATOM	8525	OG	SER	E	516	1.101	50.128	58.923	1.00	27.64	E	O
	ATOM	8526	C	SER	E	516	3.344	48.622	57.691	1.00	35.02	E	C
	ATOM	8527	O	SER	E	516	4.495	49.004	57.908	1.00	37.20	E	O
	ATOM	8528	N	LYS	E	517	2.888	47.441	58.092	1.00	38.70	E	N
40	ATOM	8529	CA	LYS	E	517	3.738	46.519	58.825	1.00	43.52	E	C
	ATOM	8530	CB	LYS	E	517	3.008	45.207	59.084	1.00	43.96	E	C
	ATOM	8531	CG	LYS	E	517	2.561	45.018	60.526	1.00	44.08	E	C
	ATOM	8532	CD	LYS	E	517	1.261	44.209	60.618	1.00	46.68	E	C
	ATOM	8533	CE	LYS	E	517	1.071	43.234	59.436	1.00	45.64	E	C
45	ATOM	8534	NZ	LYS	E	517	1.653	41.888	59.709	1.00	45.03	E	N
	ATOM	8535	C	LYS	E	517	5.026	46.227	58.078	1.00	48.36	E	C
	ATOM	8536	O	LYS	E	517	5.064	46.201	56.847	1.00	49.95	E	O
	ATOM	8537	N	HIS	E	518	6.077	46.012	58.859	1.00	54.31	E	N
	ATOM	8538	CA	HIS	E	518	7.423	45.707	58.381	1.00	57.66	E	C
50	ATOM	8539	CB	HIS	E	518	8.373	45.738	59.565	1.00	62.02	E	C
	ATOM	8540	CG	HIS	E	518	7.918	44.868	60.696	1.00	68.52	E	C
	ATOM	8541	CD2	HIS	E	518	7.090	45.123	61.742	1.00	69.59	E	C
	ATOM	8542	ND1	HIS	E	518	8.250	43.532	60.790	1.00	70.10	E	N
	ATOM	8543	CE1	HIS	E	518	7.647	43.002	61.841	1.00	71.42	E	C
55	ATOM	8544	NE2	HIS	E	518	6.937	43.946	62.435	1.00	71.91	E	N
	ATOM	8545	C	HIS	E	518	7.462	44.301	57.795	1.00	58.38	E	C
	ATOM	8546	O	HIS	E	518	6.625	43.457	58.123	1.00	60.46	E	O
	ATOM	8547	N	SER	E	519	8.446	44.046	56.942	1.00	57.70	E	N
	ATOM	8548	CA	SER	E	519	8.604	42.723	56.356	1.00	56.56	E	C
60	ATOM	8549	CB	SER	E	519	8.264	42.739	54.863	1.00	54.49	E	C
	ATOM	8550	OG	SER	E	519	8.458	41.452	54.301	1.00	49.64	E	O
	ATOM	8551	C	SER	E	519	10.054	42.294	56.554	1.00	57.47	E	C
	ATOM	8552	O	SER	E	519	10.345	41.369	57.318	1.00	57.91	E	O
	ATOM	8553	N	GLY	E	520	10.958	42.988	55.867	1.00	57.52	E	N
65	ATOM	8554	CA	GLY	E	520	12.372	42.682	55.970	1.00	57.23	E	C
	ATOM	8555	C	GLY	E	520	12.850	41.657	54.961	1.00	56.09	E	C
	ATOM	8556	O	GLY	E	520	14.006	41.685	54.543	1.00	58.31	E	O
	ATOM	8557	N	HIS	E	521	11.961	40.756	54.560	1.00	55.41	E	N
	ATOM	8558	CA	HIS	E	521	12.308	39.706	53.609	1.00	57.31	E	C

5	ATOM	8559	CB	HIS	E	521	12.125	38.333	54.272	1.00	58.64	E	C
	ATOM	8560	CG	HIS	E	521	10.921	38.244	55.167	1.00	61.89	E	C
	ATOM	8561	CD2	HIS	E	521	9.619	38.553	54.948	1.00	61.50	E	C
	ATOM	8562	ND1	HIS	E	521	10.994	37.797	56.471	1.00	63.51	E	N
	ATOM	8563	CE1	HIS	E	521	9.790	37.835	57.015	1.00	63.25	E	C
	ATOM	8564	NE2	HIS	E	521	8.937	38.290	56.114	1.00	63.43	E	N
	ATOM	8565	C	HIS	E	521	11.453	39.771	52.343	1.00	55.88	E	C
	ATOM	8566	O	HIS	E	521	10.284	39.384	52.367	1.00	58.49	E	O
10	ATOM	8567	N	MET	E	522	12.016	40.246	51.235	1.00	53.08	E	N
	ATOM	8568	CA	MET	E	522	11.225	40.308	50.010	1.00	50.49	E	C
	ATOM	8569	CB	MET	E	522	11.495	41.594	49.234	1.00	53.37	E	C
	ATOM	8570	CG	MET	E	522	10.237	42.123	48.550	1.00	57.01	E	C
	ATOM	8571	SD	MET	E	522	10.456	42.554	46.807	1.00	61.19	E	S
15	ATOM	8572	CE	MET	E	522	11.480	44.039	46.979	1.00	59.73	E	C
	ATOM	8573	C	MET	E	522	11.407	39.115	49.078	1.00	47.40	E	C
	ATOM	8574	O	MET	E	522	12.456	38.469	49.055	1.00	46.96	E	O
	ATOM	8575	N	PHE	E	523	10.353	38.842	48.317	1.00	42.43	E	N
	ATOM	8576	CA	PHE	E	523	10.299	37.743	47.361	1.00	38.79	E	C
20	ATOM	8577	CB	PHE	E	523	9.091	37.947	46.442	1.00	35.83	E	C
	ATOM	8578	CG	PHE	E	523	8.619	36.693	45.772	1.00	31.69	E	C
	ATOM	8579	CD1	PHE	E	523	8.450	35.521	46.501	1.00	29.74	E	C
	ATOM	8580	CD2	PHE	E	523	8.336	36.686	44.410	1.00	30.42	E	C
	ATOM	8581	CE1	PHE	E	523	8.007	34.358	45.881	1.00	30.43	E	C
25	ATOM	8582	CE2	PHE	E	523	7.892	35.529	43.781	1.00	30.27	E	C
	ATOM	8583	CZ	PHE	E	523	7.725	34.362	44.517	1.00	29.36	E	C
	ATOM	8584	C	PHE	E	523	11.565	37.589	46.518	1.00	37.83	E	C
	ATOM	8585	O	PHE	E	523	12.065	38.557	45.948	1.00	38.07	E	O
	ATOM	8586	N	SER	E	524	12.068	36.361	46.429	1.00	36.03	E	N
30	ATOM	8587	CA	SER	E	524	13.271	36.085	45.658	1.00	37.63	E	C
	ATOM	8588	CB	SER	E	524	14.511	36.506	46.451	1.00	34.94	E	C
	ATOM	8589	OG	SER	E	524	15.300	35.382	46.796	1.00	33.33	E	O
	ATOM	8590	C	SER	E	524	13.379	34.605	45.299	1.00	39.03	E	C
	ATOM	8591	O	SER	E	524	12.531	33.797	45.679	1.00	39.29	E	O
35	ATOM	8592	N	SER	E	525	14.431	34.263	44.563	1.00	40.88	E	N
	ATOM	8593	CA	SER	E	525	14.672	32.886	44.153	1.00	42.29	E	C
	ATOM	8594	CB	SER	E	525	15.860	32.837	43.192	1.00	43.84	E	C
	ATOM	8595	OG	SER	E	525	15.510	32.171	41.993	1.00	49.76	E	O
	ATOM	8596	C	SER	E	525	14.970	32.009	45.367	1.00	41.38	E	C
40	ATOM	8597	O	SER	E	525	14.685	30.811	45.370	1.00	39.76	E	O
	ATOM	8598	N	LYS	E	526	15.548	32.626	46.393	1.00	42.71	E	N
	ATOM	8599	CA	LYS	E	526	15.921	31.938	47.625	1.00	42.74	E	C
	ATOM	8600	CB	LYS	E	526	16.992	32.744	48.369	1.00	47.77	E	C
	ATOM	8601	CG	LYS	E	526	18.018	33.421	47.468	1.00	52.45	E	C
45	ATOM	8602	CD	LYS	E	526	19.421	32.866	47.712	1.00	56.22	E	C
	ATOM	8603	CE	LYS	E	526	20.496	33.925	47.455	1.00	59.96	E	C
	ATOM	8604	NZ	LYS	E	526	21.539	33.964	48.528	1.00	59.10	E	N
	ATOM	8605	C	LYS	E	526	14.744	31.688	48.568	1.00	39.76	E	C
	ATOM	8606	O	LYS	E	526	14.766	30.741	49.354	1.00	37.50	E	O
50	ATOM	8607	N	SER	E	527	13.729	32.543	48.492	1.00	35.91	E	N
	ATOM	8608	CA	SER	E	527	12.554	32.415	49.346	1.00	33.66	E	C
	ATOM	8609	CB	SER	E	527	11.473	33.400	48.896	1.00	31.72	E	C
	ATOM	8610	OG	SER	E	527	11.995	34.715	48.811	1.00	33.30	E	O
	ATOM	8611	C	SER	E	527	11.990	30.992	49.357	1.00	32.41	E	C
55	ATOM	8612	O	SER	E	527	11.755	30.396	48.307	1.00	33.43	E	O
	ATOM	8613	N	PRO	E	528	11.776	30.425	50.557	1.00	31.35	E	N
	ATOM	8614	CD	PRO	E	528	12.031	31.013	51.884	1.00	28.71	E	C
	ATOM	8615	CA	PRO	E	528	11.235	29.066	50.660	1.00	30.18	E	C
	ATOM	8616	CB	PRO	E	528	11.218	28.797	52.165	1.00	28.10	E	C
60	ATOM	8617	CG	PRO	E	528	11.215	30.145	52.796	1.00	26.59	E	C
	ATOM	8618	C	PRO	E	528	9.840	28.981	50.057	1.00	31.10	E	C
	ATOM	8619	O	PRO	E	528	9.109	29.973	50.041	1.00	31.86	E	O
	ATOM	8620	N	LYS	E	529	9.474	27.805	49.556	1.00	29.61	E	N
	ATOM	8621	CA	LYS	E	529	8.153	27.626	48.973	1.00	29.85	E	C
65	ATOM	8622	CB	LYS	E	529	8.066	26.291	48.233	1.00	31.38	E	C
	ATOM	8623	CG	LYS	E	529	9.168	26.082	47.188	1.00	33.18	E	C
	ATOM	8624	CD	LYS	E	529	9.114	27.126	46.083	1.00	31.96	E	C
	ATOM	8625	CE	LYS	E	529	10.510	27.622	45.737	1.00	34.27	E	C
	ATOM	8626	NZ	LYS	E	529	10.856	27.365	44.314	1.00	30.87	E	N

300

	ATOM	8627	C	LYS	E	529	7.153	27.662	50.122	1.00	29.62	E	C
	ATOM	8628	O	LYS	E	529	7.533	27.498	51.279	1.00	28.68	E	O
	ATOM	8629	N	PRO	E	530	5.860	27.885	49.817	1.00	30.71	E	N
5	ATOM	8630	CD	PRO	E	530	5.316	28.104	48.465	1.00	27.97	E	C
	ATOM	8631	CA	PRO	E	530	4.802	27.948	50.837	1.00	30.51	E	C
	ATOM	8632	CB	PRO	E	530	3.521	27.991	50.011	1.00	29.14	E	C
	ATOM	8633	CG	PRO	E	530	3.938	28.632	48.741	1.00	27.85	E	C
	ATOM	8634	C	PRO	E	530	4.798	26.804	51.851	1.00	31.87	E	C
10	ATOM	8635	O	PRO	E	530	4.629	27.030	53.055	1.00	30.52	E	O
	ATOM	8636	N	GLN	E	531	4.976	25.578	51.365	1.00	33.19	E	N
	ATOM	8637	CA	GLN	E	531	5.001	24.405	52.236	1.00	33.50	E	C
	ATOM	8638	CB	GLN	E	531	4.929	23.121	51.406	1.00	33.80	E	C
	ATOM	8639	CG	GLN	E	531	6.176	22.852	50.561	1.00	38.18	E	C
15	ATOM	8640	CD	GLN	E	531	6.071	23.423	49.154	1.00	39.43	E	C
	ATOM	8641	OE1	GLN	E	531	5.164	24.202	48.853	1.00	42.43	E	O
	ATOM	8642	NE2	GLN	E	531	7.000	23.036	48.285	1.00	38.90	E	N
	ATOM	8643	C	GLN	E	531	6.263	24.385	53.097	1.00	32.69	E	C
	ATOM	8644	O	GLN	E	531	6.299	23.727	54.130	1.00	34.27	E	O
20	ATOM	8645	N	GLU	E	532	7.296	25.102	52.668	1.00	31.76	E	N
	ATOM	8646	CA	GLU	E	532	8.546	25.162	53.417	1.00	31.97	E	C
	ATOM	8647	CB	GLU	E	532	9.734	25.289	52.460	1.00	33.67	E	C
	ATOM	8648	CG	GLU	E	532	10.058	24.018	51.689	1.00	39.41	E	C
	ATOM	8649	CD	GLU	E	532	10.794	24.294	50.379	1.00	44.65	E	C
25	ATOM	8650	OE1	GLU	E	532	11.238	25.448	50.166	1.00	45.09	E	O
	ATOM	8651	OE2	GLU	E	532	10.926	23.353	49.560	1.00	45.81	E	O
	ATOM	8652	C	GLU	E	532	8.546	26.345	54.386	1.00	32.70	E	C
	ATOM	8653	O	GLU	E	532	9.440	26.473	55.231	1.00	34.21	E	O
	ATOM	8654	N	TRP	E	533	7.547	27.215	54.256	1.00	31.62	E	N
30	ATOM	8655	CA	TRP	E	533	7.432	28.382	55.118	1.00	26.63	E	C
	ATOM	8656	CB	TRP	E	533	6.600	29.468	54.435	1.00	24.13	E	C
	ATOM	8657	CG	TRP	E	533	6.676	30.785	55.137	1.00	23.35	E	C
	ATOM	8658	CD2	TRP	E	533	7.451	31.926	54.740	1.00	22.33	E	C
	ATOM	8659	CE2	TRP	E	533	7.252	32.925	55.718	1.00	21.06	E	C
35	ATOM	8660	CE3	TRP	E	533	8.292	32.200	53.652	1.00	22.44	E	C
	ATOM	8661	CD1	TRP	E	533	6.058	31.128	56.301	1.00	21.79	E	C
	ATOM	8662	NE1	TRP	E	533	6.398	32.411	56.658	1.00	22.33	E	N
	ATOM	8663	CZ2	TRP	E	533	7.863	34.179	55.646	1.00	20.91	E	C
	ATOM	8664	CZ3	TRP	E	533	8.906	33.451	53.578	1.00	22.20	E	C
40	ATOM	8665	CH2	TRP	E	533	8.685	34.425	54.573	1.00	22.54	E	C
	ATOM	8666	C	TRP	E	533	6.765	27.959	56.415	1.00	26.77	E	C
	ATOM	8667	O	TRP	E	533	5.562	28.141	56.601	1.00	26.63	E	O
	ATOM	8668	N	THR	E	534	7.553	27.392	57.318	1.00	28.37	E	N
	ATOM	8669	CA	THR	E	534	7.031	26.928	58.601	1.00	29.16	E	C
45	ATOM	8670	CB	THR	E	534	7.674	25.601	58.990	1.00	28.70	E	C
	ATOM	8671	OG1	THR	E	534	9.098	25.753	58.968	1.00	34.85	E	O
	ATOM	8672	CG2	THR	E	534	7.277	24.506	58.004	1.00	28.60	E	C
	ATOM	8673	C	THR	E	534	7.246	27.916	59.745	1.00	29.44	E	C
	ATOM	8674	O	THR	E	534	6.678	27.746	60.824	1.00	29.97	E	O
50	ATOM	8675	N	LEU	E	535	8.055	28.949	59.516	1.00	30.31	E	N
	ATOM	8676	CA	LEU	E	535	8.320	29.945	60.549	1.00	30.98	E	C
	ATOM	8677	CB	LEU	E	535	9.505	30.827	60.148	1.00	32.28	E	C
	ATOM	8678	CG	LEU	E	535	9.529	31.396	58.726	1.00	37.89	E	C
	ATOM	8679	CD1	LEU	E	535	10.076	32.813	58.771	1.00	36.37	E	C
55	ATOM	8680	CD2	LEU	E	535	10.388	30.514	57.810	1.00	39.15	E	C
	ATOM	8681	C	LEU	E	535	7.083	30.800	60.827	1.00	33.04	E	C
	ATOM	8682	O	LEU	E	535	6.104	30.764	60.078	1.00	35.33	E	O
	ATOM	8683	N	GLU	E	536	7.128	31.568	61.907	1.00	33.74	E	N
	ATOM	8684	CA	GLU	E	536	5.999	32.398	62.299	1.00	35.39	E	C
60	ATOM	8685	CB	GLU	E	536	6.084	32.698	63.796	1.00	40.43	E	C
	ATOM	8686	CG	GLU	E	536	4.811	32.381	64.563	1.00	46.96	E	C
	ATOM	8687	CD	GLU	E	536	5.018	32.381	66.066	1.00	49.82	E	C
	ATOM	8688	OE1	GLU	E	536	4.825	33.446	66.695	1.00	51.38	E	O
	ATOM	8689	OE2	GLU	E	536	5.374	31.315	66.614	1.00	50.52	E	O
65	ATOM	8690	C	GLU	E	536	5.868	33.707	61.531	1.00	34.91	E	C
	ATOM	8691	O	GLU	E	536	4.776	34.273	61.457	1.00	35.27	E	O
	ATOM	8692	N	LYS	E	537	6.976	34.185	60.971	1.00	34.12	E	N
	ATOM	8693	CA	LYS	E	537	6.995	35.438	60.216	1.00	34.26	E	C
	ATOM	8694	CB	LYS	E	537	8.363	35.633	59.554	1.00	34.21	E	C

	ATOM	8695	CG	LYS	E	537	9.311	36.532	60.322	1.00	42.86	E	C
	ATOM	8696	CD	LYS	E	537	8.809	37.975	60.359	1.00	48.75	E	C
	ATOM	8697	CE	LYS	E	537	9.713	38.858	61.224	1.00	53.02	E	C
	ATOM	8698	NZ	LYS	E	537	9.156	40.236	61.425	1.00	53.23	E	N
5	ATOM	8699	C	LYS	E	537	5.919	35.480	59.134	1.00	32.41	E	C
	ATOM	8700	O	LYS	E	537	5.659	34.478	58.465	1.00	29.76	E	O
	ATOM	8701	N	ASN	E	538	5.283	36.637	58.968	1.00	30.89	E	N
	ATOM	8702	CA	ASN	E	538	4.273	36.772	57.924	1.00	28.20	E	C
10	ATOM	8703	CB	ASN	E	538	3.321	37.935	58.216	1.00	27.27	E	C
	ATOM	8704	CG	ASN	E	538	1.960	37.749	57.566	1.00	25.53	E	C
	ATOM	8705	OD1	ASN	E	538	1.603	36.640	57.163	1.00	26.65	E	O
	ATOM	8706	ND2	ASN	E	538	1.190	38.833	57.461	1.00	22.44	E	N
	ATOM	8707	C	ASN	E	538	5.027	37.051	56.635	1.00	26.52	E	C
	ATOM	8708	O	ASN	E	538	5.909	37.914	56.601	1.00	28.50	E	O
15	ATOM	8709	N	PRO	E	539	4.711	36.313	55.561	1.00	25.94	E	N
	ATOM	8710	CD	PRO	E	539	3.710	35.240	55.444	1.00	25.18	E	C
	ATOM	8711	CA	PRO	E	539	5.416	36.553	54.294	1.00	25.79	E	C
	ATOM	8712	CB	PRO	E	539	4.799	35.533	53.331	1.00	24.02	E	C
20	ATOM	8713	CG	PRO	E	539	4.159	34.497	54.217	1.00	23.49	E	C
	ATOM	8714	C	PRO	E	539	5.191	37.990	53.824	1.00	25.63	E	C
	ATOM	8715	O	PRO	E	539	4.226	38.635	54.244	1.00	27.09	E	O
	ATOM	8716	N	SER	E	540	6.077	38.486	52.963	1.00	24.41	E	N
	ATOM	8717	CA	SER	E	540	5.965	39.846	52.441	1.00	20.84	E	C
25	ATOM	8718	CB	SER	E	540	7.211	40.201	51.612	1.00	18.39	E	C
	ATOM	8719	OG	SER	E	540	7.163	39.648	50.309	1.00	13.21	E	O
	ATOM	8720	C	SER	E	540	4.703	40.007	51.587	1.00	21.02	E	C
	ATOM	8721	O	SER	E	540	4.050	39.024	51.228	1.00	21.31	E	O
	ATOM	8722	N	TYR	E	541	4.365	41.253	51.273	1.00	20.24	E	N
30	ATOM	8723	CA	TYR	E	541	3.197	41.562	50.464	1.00	18.41	E	C
	ATOM	8724	CB	TYR	E	541	3.096	43.083	50.275	1.00	18.80	E	C
	ATOM	8725	CG	TYR	E	541	1.960	43.557	49.385	1.00	18.59	E	C
	ATOM	8726	CD1	TYR	E	541	2.118	43.630	48.002	1.00	16.78	E	C
	ATOM	8727	CE1	TYR	E	541	1.083	44.079	47.179	1.00	15.44	E	C
35	ATOM	8728	CD2	TYR	E	541	0.734	43.944	49.927	1.00	14.86	E	C
	ATOM	8729	CE2	TYR	E	541	-0.312	44.397	49.110	1.00	13.12	E	C
	ATOM	8730	CZ	TYR	E	541	-0.127	44.461	47.736	1.00	14.82	E	C
	ATOM	8731	OH	TYR	E	541	-1.141	44.909	46.914	1.00	10.00	E	O
	ATOM	8732	C	TYR	E	541	3.304	40.869	49.108	1.00	21.82	E	C
40	ATOM	8733	O	TYR	E	541	2.345	40.252	48.635	1.00	23.27	E	O
	ATOM	8734	N	THR	E	542	4.477	40.964	48.488	1.00	20.00	E	N
	ATOM	8735	CA	THR	E	542	4.713	40.369	47.175	1.00	20.52	E	C
	ATOM	8736	CB	THR	E	542	6.085	40.816	46.638	1.00	18.26	E	C
	ATOM	8737	OG1	THR	E	542	6.091	42.243	46.530	1.00	17.38	E	O
	ATOM	8738	CG2	THR	E	542	6.361	40.215	45.272	1.00	18.79	E	C
45	ATOM	8739	C	THR	E	542	4.614	38.844	47.163	1.00	19.85	E	C
	ATOM	8740	O	THR	E	542	4.210	38.248	46.164	1.00	21.22	E	O
	ATOM	8741	N	TYR	E	543	4.988	38.218	48.273	1.00	20.76	E	N
	ATOM	8742	CA	TYR	E	543	4.911	36.767	48.402	1.00	19.88	E	C
50	ATOM	8743	CB	TYR	E	543	5.495	36.346	49.749	1.00	21.87	E	C
	ATOM	8744	CG	TYR	E	543	5.768	34.868	49.895	1.00	21.32	E	C
	ATOM	8745	CD1	TYR	E	543	4.768	33.997	50.320	1.00	23.10	E	C
	ATOM	8746	CE1	TYR	E	543	5.024	32.635	50.515	1.00	23.96	E	C
	ATOM	8747	CD2	TYR	E	543	7.039	34.346	49.659	1.00	23.39	E	C
55	ATOM	8748	CE2	TYR	E	543	7.310	32.980	49.853	1.00	23.23	E	C
	ATOM	8749	CZ	TYR	E	543	6.292	32.137	50.282	1.00	23.36	E	C
	ATOM	8750	OH	TYR	E	543	6.534	30.802	50.495	1.00	24.29	E	O
	ATOM	8751	C	TYR	E	543	3.429	36.392	48.327	1.00	19.75	E	C
	ATOM	8752	O	TYR	E	543	3.028	35.485	47.597	1.00	18.77	E	O
60	ATOM	8753	N	TYR	E	544	2.615	37.106	49.092	1.00	19.50	E	N
	ATOM	8754	CA	TYR	E	544	1.176	36.872	49.100	1.00	21.04	E	C
	ATOM	8755	CB	TYR	E	544	0.486	37.868	50.036	1.00	20.39	E	C
	ATOM	8756	CG	TYR	E	544	0.291	37.404	51.464	1.00	23.38	E	C
	ATOM	8757	CD1	TYR	E	544	1.257	37.672	52.453	1.00	25.07	E	C
65	ATOM	8758	CE1	TYR	E	544	1.034	37.338	53.793	1.00	21.69	E	C
	ATOM	8759	CD2	TYR	E	544	-0.893	36.780	51.854	1.00	22.44	E	C
	ATOM	8760	CE2	TYR	E	544	-1.124	36.442	53.190	1.00	24.68	E	C
	ATOM	8761	CZ	TYR	E	544	-0.164	36.725	54.154	1.00	25.02	E	C
	ATOM	8762	OH	TYR	E	544	-0.438	36.432	55.477	1.00	23.57	E	O

	ATOM	8763	C	TYR	E	544	0.640	37.087	47.678	1.00	22.42	E	C
	ATOM	8764	O	TYR	E	544	-0.004	36.213	47.092	1.00	22.10	E	O
	ATOM	8765	N	ALA	E	545	0.915	38.273	47.139	1.00	23.73	E	N
5	ATOM	8766	CA	ALA	E	545	0.472	38.661	45.807	1.00	21.60	E	C
	ATOM	8767	CB	ALA	E	545	1.060	40.023	45.441	1.00	21.79	E	C
	ATOM	8768	C	ALA	E	545	0.824	37.642	44.738	1.00	21.30	E	C
	ATOM	8769	O	ALA	E	545	-0.036	37.255	43.946	1.00	20.22	E	O
	ATOM	8770	N	TYR	E	546	2.076	37.193	44.704	1.00	19.86	E	N
10	ATOM	8771	CA	TYR	E	546	2.460	36.232	43.678	1.00	18.68	E	C
	ATOM	8772	CB	TYR	E	546	3.941	35.863	43.766	1.00	20.73	E	C
	ATOM	8773	CG	TYR	E	546	4.303	34.797	42.752	1.00	24.74	E	C
	ATOM	8774	CD1	TYR	E	546	4.577	35.135	41.425	1.00	26.58	E	C
	ATOM	8775	CE1	TYR	E	546	4.813	34.156	40.463	1.00	26.65	E	C
	ATOM	8776	CD2	TYR	E	546	4.281	33.445	43.091	1.00	26.23	E	C
15	ATOM	8777	CE2	TYR	E	546	4.516	32.458	42.134	1.00	25.91	E	C
	ATOM	8778	CZ	TYR	E	546	4.776	32.824	40.822	1.00	28.27	E	C
	ATOM	8779	OH	TYR	E	546	4.964	31.862	39.856	1.00	28.96	E	O
	ATOM	8780	C	TYR	E	546	1.654	34.948	43.721	1.00	18.77	E	C
20	ATOM	8781	O	TYR	E	546	1.097	34.521	42.713	1.00	18.28	E	O
	ATOM	8782	N	TYR	E	547	1.593	34.327	44.893	1.00	20.19	E	N
	ATOM	8783	CA	TYR	E	547	0.878	33.062	45.028	1.00	20.41	E	C
	ATOM	8784	CB	TYR	E	547	1.242	32.403	46.355	1.00	18.16	E	C
	ATOM	8785	CG	TYR	E	547	2.618	31.789	46.281	1.00	18.19	E	C
	ATOM	8786	CD1	TYR	E	547	2.836	30.631	45.538	1.00	15.17	E	C
25	ATOM	8787	CE1	TYR	E	547	4.112	30.101	45.394	1.00	18.03	E	C
	ATOM	8788	CD2	TYR	E	547	3.716	32.402	46.883	1.00	14.70	E	C
	ATOM	8789	CE2	TYR	E	547	4.996	31.876	46.742	1.00	14.85	E	C
	ATOM	8790	CZ	TYR	E	547	5.184	30.728	45.996	1.00	17.14	E	C
	ATOM	8791	OH	TYR	E	547	6.443	30.188	45.844	1.00	22.19	E	O
30	ATOM	8792	C	TYR	E	547	-0.626	33.150	44.848	1.00	21.50	E	C
	ATOM	8793	O	TYR	E	547	-1.278	32.148	44.530	1.00	23.11	E	O
	ATOM	8794	N	MET	E	548	-1.179	34.341	45.038	1.00	19.17	E	N
	ATOM	8795	CA	MET	E	548	-2.602	34.528	44.845	1.00	16.50	E	C
35	ATOM	8796	CB	MET	E	548	-3.076	35.778	45.583	1.00	18.09	E	C
	ATOM	8797	CG	MET	E	548	-3.558	35.490	46.995	1.00	20.47	E	C
	ATOM	8798	SD	MET	E	548	-4.487	36.852	47.688	1.00	25.62	E	S
	ATOM	8799	CE	MET	E	548	-6.138	36.499	47.062	1.00	26.29	E	C
	ATOM	8800	C	MET	E	548	-2.817	34.671	43.341	1.00	16.93	E	C
40	ATOM	8801	O	MET	E	548	-3.778	34.150	42.784	1.00	18.11	E	O
	ATOM	8802	N	TYR	E	549	-1.902	35.366	42.677	1.00	16.52	E	N
	ATOM	8803	CA	TYR	E	549	-2.002	35.555	41.239	1.00	17.68	E	C
	ATOM	8804	CB	TYR	E	549	-0.887	36.486	40.742	1.00	18.05	E	C
	ATOM	8805	CG	TYR	E	549	-0.693	36.471	39.239	1.00	18.71	E	C
	ATOM	8806	CD1	TYR	E	549	-1.495	37.252	38.404	1.00	17.76	E	C
45	ATOM	8807	CE1	TYR	E	549	-1.334	37.229	37.014	1.00	16.16	E	C
	ATOM	8808	CD2	TYR	E	549	0.285	35.666	38.644	1.00	17.88	E	C
	ATOM	8809	CE2	TYR	E	549	0.454	35.637	37.255	1.00	14.63	E	C
	ATOM	8810	CZ	TYR	E	549	-0.361	36.422	36.452	1.00	16.32	E	C
50	ATOM	8811	OH	TYR	E	549	-0.212	36.402	35.085	1.00	19.95	E	O
	ATOM	8812	C	TYR	E	549	-1.863	34.207	40.557	1.00	18.24	E	C
	ATOM	8813	O	TYR	E	549	-2.653	33.851	39.690	1.00	21.22	E	O
	ATOM	8814	N	ALA	E	550	-0.846	33.457	40.965	1.00	20.66	E	N
	ATOM	8815	CA	ALA	E	550	-0.557	32.150	40.391	1.00	19.47	E	C
55	ATOM	8816	CB	ALA	E	550	0.640	31.528	41.116	1.00	16.80	E	C
	ATOM	8817	C	ALA	E	550	-1.751	31.198	40.421	1.00	20.16	E	C
	ATOM	8818	O	ALA	E	550	-2.115	30.617	39.400	1.00	20.48	E	O
	ATOM	8819	N	ASN	E	551	-2.362	31.040	41.590	1.00	20.62	E	N
	ATOM	8820	CA	ASN	E	551	-3.503	30.144	41.724	1.00	19.72	E	C
60	ATOM	8821	CB	ASN	E	551	-3.845	29.955	43.204	1.00	21.12	E	C
	ATOM	8822	CG	ASN	E	551	-2.977	28.911	43.873	1.00	20.24	E	C
	ATOM	8823	OD1	ASN	E	551	-2.032	29.242	44.592	1.00	23.45	E	O
	ATOM	8824	ND2	ASN	E	551	-3.291	27.642	43.641	1.00	17.30	E	N
	ATOM	8825	C	ASN	E	551	-4.722	30.676	40.971	1.00	20.47	E	C
65	ATOM	8826	O	ASN	E	551	-5.486	29.905	40.389	1.00	21.66	E	O
	ATOM	8827	N	ILE	E	552	-4.909	31.994	40.988	1.00	19.23	E	N
	ATOM	8828	CA	ILE	E	552	-6.034	32.614	40.298	1.00	18.03	E	C
	ATOM	8829	CB	ILE	E	552	-6.126	34.135	40.639	1.00	18.61	E	C
	ATOM	8830	CG2	ILE	E	552	-7.067	34.860	39.657	1.00	13.47	E	C

	ATOM	8831	CG1	ILE	E	552	-6.638	34.305	42.076	1.00	16.79	E	C
	ATOM	8832	CD1	ILE	E	552	-6.790	35.747	42.518	1.00	13.59	E	C
	ATOM	8833	C	ILE	E	552	-5.889	32.428	38.785	1.00	18.58	E	C
	ATOM	8834	O	ILE	E	552	-6.872	32.193	38.079	1.00	17.42	E	O
5	ATOM	8835	N	MET	E	553	-4.658	32.522	38.293	1.00	19.69	E	N
	ATOM	8836	CA	MET	E	553	-4.399	32.359	36.867	1.00	22.77	E	C
	ATOM	8837	CB	MET	E	553	-2.928	32.601	36.558	1.00	22.26	E	C
	ATOM	8838	CG	MET	E	553	-2.550	32.198	35.152	1.00	26.72	E	C
	ATOM	8839	SD	MET	E	553	-0.781	31.939	34.945	1.00	34.11	E	S
10	ATOM	8840	CE	MET	E	553	-0.791	30.320	34.227	1.00	30.77	E	C
	ATOM	8841	C	MET	E	553	-4.782	30.963	36.394	1.00	24.14	E	C
	ATOM	8842	O	MET	E	553	-5.495	30.808	35.397	1.00	24.79	E	O
	ATOM	8843	N	VAL	E	554	-4.293	29.949	37.106	1.00	22.69	E	N
	ATOM	8844	CA	VAL	E	554	-4.584	28.563	36.770	1.00	20.53	E	C
15	ATOM	8845	CB	VAL	E	554	-3.827	27.595	37.716	1.00	21.46	E	C
	ATOM	8846	CG1	VAL	E	554	-4.073	26.148	37.297	1.00	20.59	E	C
	ATOM	8847	CG2	VAL	E	554	-2.333	27.908	37.699	1.00	16.32	E	C
	ATOM	8848	C	VAL	E	554	-6.089	28.336	36.902	1.00	21.55	E	C
	ATOM	8849	O	VAL	E	554	-6.731	27.787	36.009	1.00	22.93	E	O
20	ATOM	8850	N	LEU	E	555	-6.656	28.772	38.020	1.00	22.08	E	N
	ATOM	8851	CA	LEU	E	555	-8.090	28.615	38.245	1.00	20.69	E	C
	ATOM	8852	CB	LEU	E	555	-8.489	29.288	39.566	1.00	17.98	E	C
	ATOM	8853	CG	LEU	E	555	-9.971	29.397	39.947	1.00	14.95	E	C
	ATOM	8854	CD1	LEU	E	555	-10.579	28.019	40.117	1.00	14.10	E	C
25	ATOM	8855	CD2	LEU	E	555	-10.093	30.187	41.238	1.00	13.64	E	C
	ATOM	8856	C	LEU	E	555	-8.878	29.237	37.095	1.00	19.62	E	C
	ATOM	8857	O	LEU	E	555	-9.917	28.721	36.692	1.00	18.89	E	O
	ATOM	8858	N	ASN	E	556	-8.375	30.347	36.566	1.00	20.11	E	N
	ATOM	8859	CA	ASN	E	556	-9.057	31.046	35.488	1.00	20.04	E	C
30	ATOM	8860	CB	ASN	E	556	-8.476	32.455	35.345	1.00	20.30	E	C
	ATOM	8861	CG	ASN	E	556	-9.170	33.475	36.254	1.00	20.87	E	C
	ATOM	8862	OD1	ASN	E	556	-10.203	33.188	36.860	1.00	19.52	E	O
	ATOM	8863	ND2	ASN	E	556	-8.601	34.670	36.345	1.00	21.14	E	N
	ATOM	8864	C	ASN	E	556	-8.995	30.294	34.157	1.00	22.30	E	C
35	ATOM	8865	O	ASN	E	556	-9.977	30.268	33.408	1.00	16.66	E	O
	ATOM	8866	N	SER	E	557	-7.846	29.683	33.866	1.00	23.46	E	N
	ATOM	8867	CA	SER	E	557	-7.677	28.921	32.628	1.00	23.78	E	C
	ATOM	8868	CB	SER	E	557	-6.253	28.366	32.519	1.00	24.13	E	C
	ATOM	8869	OG	SER	E	557	-5.287	29.403	32.582	1.00	30.87	E	O
40	ATOM	8870	C	SER	E	557	-8.665	27.757	32.627	1.00	25.99	E	C
	ATOM	8871	O	SER	E	557	-9.356	27.503	31.638	1.00	24.61	E	O
	ATOM	8872	N	LEU	E	558	-8.727	27.058	33.755	1.00	26.24	E	N
	ATOM	8873	CA	LEU	E	558	-9.612	25.914	33.907	1.00	25.65	E	C
	ATOM	8874	CB	LEU	E	558	-9.372	25.259	35.269	1.00	26.55	E	C
45	ATOM	8875	CG	LEU	E	558	-10.257	24.072	35.655	1.00	27.30	E	C
	ATOM	8876	CD1	LEU	E	558	-9.961	22.891	34.752	1.00	24.79	E	C
	ATOM	8877	CD2	LEU	E	558	-10.006	23.709	37.107	1.00	27.03	E	C
	ATOM	8878	C	LEU	E	558	-11.088	26.274	33.755	1.00	24.64	E	C
	ATOM	8879	O	LEU	E	558	-11.816	25.618	33.017	1.00	26.95	E	O
50	ATOM	8880	N	ARG	E	559	-11.530	27.316	34.447	1.00	25.17	E	N
	ATOM	8881	CA	ARG	E	559	-12.927	27.735	34.384	1.00	24.55	E	C
	ATOM	8882	CB	ARG	E	559	-13.202	28.799	35.444	1.00	22.52	E	C
	ATOM	8883	CG	ARG	E	559	-13.596	28.228	36.799	1.00	20.61	E	C
	ATOM	8884	CD	ARG	E	559	-13.820	29.336	37.817	1.00	16.36	E	C
55	ATOM	8885	NE	ARG	E	559	-15.226	29.695	37.949	1.00	10.91	E	N
	ATOM	8886	CZ	ARG	E	559	-16.129	28.951	38.570	1.00	11.35	E	C
	ATOM	8887	NH1	ARG	E	559	-15.775	27.795	39.118	1.00	14.34	E	N
	ATOM	8888	NH2	ARG	E	559	-17.382	29.367	38.656	1.00	6.75	E	N
	ATOM	8889	C	ARG	E	559	-13.324	28.275	33.013	1.00	26.99	E	C
60	ATOM	8890	O	ARG	E	559	-14.486	28.185	32.607	1.00	24.85	E	O
	ATOM	8891	N	LYS	E	560	-12.357	28.855	32.312	1.00	29.25	E	N
	ATOM	8892	CA	LYS	E	560	-12.605	29.401	30.986	1.00	30.42	E	C
	ATOM	8893	CB	LYS	E	560	-11.345	30.093	30.453	1.00	31.18	E	C
	ATOM	8894	CG	LYS	E	560	-11.443	30.575	29.014	1.00	32.74	E	C
65	ATOM	8895	CD	LYS	E	560	-11.919	32.024	28.937	1.00	37.72	E	C
	ATOM	8896	CE	LYS	E	560	-11.750	32.597	27.524	1.00	40.11	E	C
	ATOM	8897	NZ	LYS	E	560	-12.129	34.048	27.415	1.00	37.55	E	N
	ATOM	8898	C	LYS	E	560	-12.972	28.235	30.086	1.00	30.88	E	C

	ATOM	8899	O	LYS	E	560	-13.983	28.265	29.385	1.00	30.86	E	O
	ATOM	8900	N	GLU	E	561	-12.148	27.198	30.129	1.00	30.60	E	N
	ATOM	8901	CA	GLU	E	561	-12.367	26.011	29.322	1.00	33.53	E	C
5	ATOM	8902	CB	GLU	E	561	-11.224	25.020	29.536	1.00	38.82	E	C
	ATOM	8903	CG	GLU	E	561	-10.110	25.142	28.513	1.00	48.09	E	C
	ATOM	8904	CD	GLU	E	561	-9.060	24.063	28.681	1.00	54.46	E	C
	ATOM	8905	OE1	GLU	E	561	-9.439	22.901	28.957	1.00	56.04	E	O
	ATOM	8906	OE2	GLU	E	561	-7.855	24.375	28.541	1.00	58.51	E	O
10	ATOM	8907	C	GLU	E	561	-13.698	25.323	29.601	1.00	32.43	E	C
	ATOM	8908	O	GLU	E	561	-14.288	24.734	28.698	1.00	33.58	E	O
	ATOM	8909	N	ARG	E	562	-14.172	25.387	30.844	1.00	30.78	E	N
	ATOM	8910	CA	ARG	E	562	-15.442	24.756	31.202	1.00	25.56	E	C
	ATOM	8911	CB	ARG	E	562	-15.475	24.422	32.700	1.00	25.48	E	C
	ATOM	8912	CG	ARG	E	562	-14.293	23.581	33.189	1.00	25.70	E	C
15	ATOM	8913	CD	ARG	E	562	-14.737	22.465	34.125	1.00	24.84	E	C
	ATOM	8914	NE	ARG	E	562	-15.787	21.633	33.536	1.00	27.68	E	N
	ATOM	8915	CZ	ARG	E	562	-16.525	20.754	34.211	1.00	28.18	E	C
	ATOM	8916	NH1	ARG	E	562	-16.340	20.574	35.514	1.00	29.19	E	N
20	ATOM	8917	NH2	ARG	E	562	-17.453	20.051	33.579	1.00	28.49	E	N
	ATOM	8918	C	ARG	E	562	-16.608	25.673	30.856	1.00	22.70	E	C
	ATOM	8919	O	ARG	E	562	-17.768	25.323	31.055	1.00	22.05	E	O
	ATOM	8920	N	GLY	E	563	-16.297	26.850	30.329	1.00	22.76	E	N
	ATOM	8921	CA	GLY	E	563	-17.344	27.791	29.987	1.00	22.33	E	C
25	ATOM	8922	C	GLY	E	563	-17.899	28.441	31.242	1.00	26.00	E	C
	ATOM	8923	O	GLY	E	563	-19.052	28.886	31.267	1.00	26.01	E	O
	ATOM	8924	N	MET	E	564	-17.075	28.495	32.288	1.00	25.59	E	N
	ATOM	8925	CA	MET	E	564	-17.473	29.087	33.560	1.00	22.86	E	C
	ATOM	8926	CB	MET	E	564	-16.996	28.213	34.722	1.00	23.00	E	C
	ATOM	8927	CG	MET	E	564	-17.927	27.069	35.088	1.00	20.58	E	C
30	ATOM	8928	SD	MET	E	564	-17.079	25.800	36.046	1.00	19.45	E	S
	ATOM	8929	CE	MET	E	564	-18.418	24.915	36.715	1.00	17.05	E	C
	ATOM	8930	C	MET	E	564	-16.861	30.473	33.690	1.00	23.14	E	C
	ATOM	8931	O	MET	E	564	-15.918	30.808	32.975	1.00	25.00	E	O
35	ATOM	8932	N	ASN	E	565	-17.393	31.265	34.616	1.00	22.98	E	N
	ATOM	8933	CA	ASN	E	565	-16.912	32.627	34.856	1.00	20.55	E	C
	ATOM	8934	CB	ASN	E	565	-17.891	33.371	35.780	1.00	20.65	E	C
	ATOM	8935	CG	ASN	E	565	-18.072	32.682	37.135	1.00	20.80	E	C
	ATOM	8936	OD1	ASN	E	565	-18.426	31.502	37.209	1.00	18.79	E	O
40	ATOM	8937	ND2	ASN	E	565	-17.828	33.424	38.210	1.00	18.41	E	N
	ATOM	8938	C	ASN	E	565	-15.510	32.647	35.463	1.00	19.52	E	C
	ATOM	8939	O	ASN	E	565	-15.117	31.710	36.160	1.00	20.43	E	O
	ATOM	8940	N	THR	E	566	-14.759	33.713	35.188	1.00	16.92	E	N
	ATOM	8941	CA	THR	E	566	-13.403	33.865	35.712	1.00	15.07	E	C
45	ATOM	8942	CB	THR	E	566	-12.405	34.210	34.586	1.00	17.97	E	C
	ATOM	8943	OG1	THR	E	566	-13.000	35.164	33.695	1.00	19.03	E	O
	ATOM	8944	CG2	THR	E	566	-12.034	32.962	33.803	1.00	14.03	E	C
	ATOM	8945	C	THR	E	566	-13.386	34.976	36.764	1.00	11.26	E	C
	ATOM	8946	O	THR	E	566	-14.364	35.702	36.910	1.00	10.92	E	O
50	ATOM	8947	N	PHE	E	567	-12.282	35.104	37.494	1.00	11.75	E	N
	ATOM	8948	CA	PHE	E	567	-12.164	36.120	38.546	1.00	13.96	E	C
	ATOM	8949	CB	PHE	E	567	-11.976	35.464	39.923	1.00	11.62	E	C
	ATOM	8950	CG	PHE	E	567	-12.821	34.250	40.136	1.00	9.99	E	C
	ATOM	8951	CD1	PHE	E	567	-14.168	34.374	40.441	1.00	9.19	E	C
55	ATOM	8952	CD2	PHE	E	567	-12.271	32.978	40.029	1.00	8.59	E	C
	ATOM	8953	CE1	PHE	E	567	-14.963	33.238	40.637	1.00	10.33	E	C
	ATOM	8954	CE2	PHE	E	567	-13.057	31.843	40.221	1.00	8.57	E	C
	ATOM	8955	CZ	PHE	E	567	-14.400	31.974	40.525	1.00	5.39	E	C
	ATOM	8956	C	PHE	E	567	-11.004	37.076	38.332	1.00	12.85	E	C
60	ATOM	8957	O	PHE	E	567	-9.996	36.719	37.725	1.00	16.34	E	O
	ATOM	8958	N	LEU	E	568	-11.147	38.291	38.852	1.00	14.68	E	N
	ATOM	8959	CA	LEU	E	568	-10.098	39.298	38.744	1.00	13.81	E	C
	ATOM	8960	CB	LEU	E	568	-10.680	40.669	38.385	1.00	11.97	E	C
	ATOM	8961	CG	LEU	E	568	-11.656	40.826	37.219	1.00	9.91	E	C
65	ATOM	8962	CD1	LEU	E	568	-12.115	42.273	37.170	1.00	6.16	E	C
	ATOM	8963	CD2	LEU	E	568	-10.991	40.440	35.909	1.00	7.29	E	C
	ATOM	8964	C	LEU	E	568	-9.416	39.403	40.098	1.00	13.07	E	C
	ATOM	8965	O	LEU	E	568	-9.991	39.019	41.116	1.00	8.76	E	O
	ATOM	8966	N	PHE	E	569	-8.189	39.919	40.092	1.00	14.72	E	N

	ATOM	8967	CA	PHE	E	569	-7.406	40.117	41.306	1.00	13.41	E	C
	ATOM	8968	CB	PHE	E	569	-6.016	39.484	41.127	1.00	14.00	E	C
	ATOM	8969	CG	PHE	E	569	-5.126	39.557	42.350	1.00	11.67	E	C
5	ATOM	8970	CD1	PHE	E	569	-5.620	39.271	43.617	1.00	11.41	E	C
	ATOM	8971	CD2	PHE	E	569	-3.788	39.914	42.223	1.00	9.47	E	C
	ATOM	8972	CE1	PHE	E	569	-4.789	39.341	44.744	1.00	12.15	E	C
	ATOM	8973	CE2	PHE	E	569	-2.950	39.987	43.339	1.00	13.45	E	C
	ATOM	8974	CZ	PHE	E	569	-3.454	39.700	44.602	1.00	11.13	E	C
10	ATOM	8975	C	PHE	E	569	-7.312	41.635	41.505	1.00	13.88	E	C
	ATOM	8976	O	PHE	E	569	-6.636	42.322	40.746	1.00	14.12	E	O
	ATOM	8977	N	ARG	E	570	-8.014	42.144	42.516	1.00	15.88	E	N
	ATOM	8978	CA	ARG	E	570	-8.042	43.571	42.834	1.00	15.97	E	C
	ATOM	8979	CB	ARG	E	570	-9.448	44.120	42.581	1.00	15.23	E	C
	ATOM	8980	CG	ARG	E	570	-10.068	43.646	41.267	1.00	11.85	E	C
15	ATOM	8981	CD	ARG	E	570	-11.582	43.858	41.223	1.00	9.53	E	C
	ATOM	8982	NE	ARG	E	570	-11.993	45.204	41.618	1.00	7.13	E	N
	ATOM	8983	CZ	ARG	E	570	-13.256	45.617	41.637	1.00	6.80	E	C
	ATOM	8984	NH1	ARG	E	570	-14.227	44.791	41.281	1.00	7.98	E	N
	ATOM	8985	NH2	ARG	E	570	-13.557	46.846	42.030	1.00	5.18	E	N
20	ATOM	8986	C	ARG	E	570	-7.665	43.780	44.305	1.00	15.67	E	C
	ATOM	8987	O	ARG	E	570	-8.529	44.010	45.150	1.00	17.11	E	O
	ATOM	8988	N	PRO	E	571	-6.364	43.744	44.624	1.00	13.10	E	N
	ATOM	8989	CD	PRO	E	571	-5.216	43.562	43.721	1.00	10.42	E	C
	ATOM	8990	CA	PRO	E	571	-5.929	43.922	46.013	1.00	12.82	E	C
25	ATOM	8991	CB	PRO	E	571	-4.561	43.256	46.029	1.00	10.64	E	C
	ATOM	8992	CG	PRO	E	571	-4.023	43.572	44.664	1.00	10.26	E	C
	ATOM	8993	C	PRO	E	571	-5.833	45.359	46.515	1.00	14.63	E	C
	ATOM	8994	O	PRO	E	571	-5.889	46.315	45.737	1.00	13.59	E	O
	ATOM	8995	N	HIS	E	572	-5.701	45.490	47.833	1.00	13.06	E	N
30	ATOM	8996	CA	HIS	E	572	-5.522	46.787	48.459	1.00	12.99	E	C
	ATOM	8997	CB	HIS	E	572	-5.714	46.697	49.976	1.00	13.98	E	C
	ATOM	8998	CG	HIS	E	572	-7.131	46.864	50.425	1.00	11.11	E	C
	ATOM	8999	CD2	HIS	E	572	-7.668	47.608	51.420	1.00	12.20	E	C
	ATOM	9000	ND1	HIS	E	572	-8.183	46.194	49.839	1.00	11.21	E	N
35	ATOM	9001	CE1	HIS	E	572	-9.307	46.518	50.453	1.00	13.55	E	C
	ATOM	9002	NE2	HIS	E	572	-9.019	47.376	51.420	1.00	13.51	E	N
	ATOM	9003	C	HIS	E	572	-4.054	47.007	48.157	1.00	12.50	E	C
	ATOM	9004	O	HIS	E	572	-3.260	46.076	48.294	1.00	12.88	E	O
	ATOM	9005	N	CYS	E	573	-3.679	48.210	47.735	1.00	11.11	E	N
40	ATOM	9006	CA	CYS	E	573	-2.282	48.452	47.420	1.00	10.46	E	C
	ATOM	9007	CB	CYS	E	573	-1.972	47.912	46.026	1.00	11.72	E	C
	ATOM	9008	SG	CYS	E	573	-0.210	47.900	45.569	1.00	18.82	E	S
	ATOM	9009	C	CYS	E	573	-1.927	49.918	47.496	1.00	10.58	E	C
	ATOM	9010	O	CYS	E	573	-2.706	50.774	47.089	1.00	11.81	E	O
45	ATOM	9011	N	GLY	E	574	-0.751	50.197	48.045	1.00	12.39	E	N
	ATOM	9012	CA	GLY	E	574	-0.280	51.564	48.159	1.00	13.21	E	C
	ATOM	9013	C	GLY	E	574	-0.875	52.433	49.250	1.00	15.25	E	C
	ATOM	9014	O	GLY	E	574	-0.643	53.642	49.260	1.00	15.58	E	O
	ATOM	9015	N	GLU	E	575	-1.656	51.855	50.155	1.00	16.10	E	N
50	ATOM	9016	CA	GLU	E	575	-2.225	52.654	51.236	1.00	15.90	E	C
	ATOM	9017	CB	GLU	E	575	-3.208	51.836	52.073	1.00	14.19	E	C
	ATOM	9018	CG	GLU	E	575	-3.909	52.647	53.144	1.00	12.26	E	C
	ATOM	9019	CD	GLU	E	575	-4.921	51.832	53.912	1.00	16.47	E	C
	ATOM	9020	OE1	GLU	E	575	-5.907	52.404	54.421	1.00	17.82	E	O
55	ATOM	9021	OE2	GLU	E	575	-4.730	50.605	54.007	1.00	18.69	E	O
	ATOM	9022	C	GLU	E	575	-1.059	53.084	52.107	1.00	16.40	E	C
	ATOM	9023	O	GLU	E	575	-1.076	54.155	52.709	1.00	18.12	E	O
	ATOM	9024	N	VAL	E	576	-0.055	52.216	52.169	1.00	17.11	E	N
	ATOM	9025	CA	VAL	E	576	1.168	52.450	52.927	1.00	19.54	E	C
60	ATOM	9026	CB	VAL	E	576	0.913	52.562	54.434	1.00	22.43	E	C
	ATOM	9027	CG1	VAL	E	576	0.673	54.028	54.812	1.00	31.09	E	C
	ATOM	9028	CG2	VAL	E	576	-0.261	51.695	54.830	1.00	27.98	E	C
	ATOM	9029	C	VAL	E	576	2.120	51.294	52.696	1.00	17.23	E	C
	ATOM	9030	O	VAL	E	576	1.796	50.347	51.995	1.00	19.04	E	O
65	ATOM	9031	N	GLY	E	577	3.298	51.374	53.290	1.00	18.25	E	N
	ATOM	9032	CA	GLY	E	577	4.272	50.316	53.119	1.00	18.54	E	C
	ATOM	9033	C	GLY	E	577	5.275	50.707	52.058	1.00	19.48	E	C
	ATOM	9034	O	GLY	E	577	5.377	51.878	51.698	1.00	20.68	E	O

	ATOM	9035	N	ALA	E	578	6.009	49.727	51.548	1.00	18.91	E	N
	ATOM	9036	CA	ALA	E	578	7.012	49.971	50.525	1.00	20.61	E	C
	ATOM	9037	CB	ALA	E	578	7.986	48.803	50.484	1.00	18.11	E	C
5	ATOM	9038	C	ALA	E	578	6.392	50.182	49.142	1.00	22.48	E	C
	ATOM	9039	O	ALA	E	578	5.292	49.708	48.866	1.00	22.76	E	O
	ATOM	9040	N	LEU	E	579	7.110	50.888	48.273	1.00	24.97	E	N
	ATOM	9041	CA	LEU	E	579	6.642	51.151	46.915	1.00	23.80	E	C
	ATOM	9042	CB	LEU	E	579	7.615	52.078	46.182	1.00	24.07	E	C
10	ATOM	9043	CG	LEU	E	579	7.421	53.580	46.368	1.00	23.38	E	C
	ATOM	9044	CD1	LEU	E	579	8.667	54.307	45.897	1.00	23.60	E	C
	ATOM	9045	CD2	LEU	E	579	6.198	54.044	45.596	1.00	26.51	E	C
	ATOM	9046	C	LEU	E	579	6.525	49.848	46.136	1.00	25.16	E	C
	ATOM	9047	O	LEU	E	579	5.665	49.713	45.262	1.00	27.36	E	O
15	ATOM	9048	N	THR	E	580	7.391	48.891	46.458	1.00	23.05	E	N
	ATOM	9049	CA	THR	E	580	7.386	47.603	45.777	1.00	23.79	E	C
	ATOM	9050	CB	THR	E	580	8.369	46.602	46.441	1.00	25.10	E	C
	ATOM	9051	OG1	THR	E	580	7.823	46.132	47.678	1.00	31.08	E	O
	ATOM	9052	CG2	THR	E	580	9.704	47.262	46.703	1.00	23.46	E	C
20	ATOM	9053	C	THR	E	580	6.006	46.955	45.718	1.00	19.87	E	C
	ATOM	9054	O	THR	E	580	5.797	46.023	44.950	1.00	23.19	E	O
	ATOM	9055	N	HIS	E	581	5.070	47.441	46.525	1.00	18.02	E	N
	ATOM	9056	CA	HIS	E	581	3.716	46.897	46.536	1.00	16.96	E	C
	ATOM	9057	CB	HIS	E	581	2.916	47.420	47.738	1.00	17.66	E	C
25	ATOM	9058	CG	HIS	E	581	3.444	46.979	49.066	1.00	17.63	E	C
	ATOM	9059	CD2	HIS	E	581	4.620	46.406	49.414	1.00	17.27	E	C
	ATOM	9060	ND1	HIS	E	581	2.729	47.129	50.235	1.00	16.22	E	N
	ATOM	9061	CE1	HIS	E	581	3.442	46.669	51.246	1.00	12.13	E	C
	ATOM	9062	NE2	HIS	E	581	4.593	46.225	50.775	1.00	15.31	E	N
30	ATOM	9063	C	HIS	E	581	2.976	47.301	45.268	1.00	16.86	E	C
	ATOM	9064	O	HIS	E	581	2.205	46.521	44.716	1.00	16.77	E	O
	ATOM	9065	N	LEU	E	582	3.202	48.533	44.822	1.00	15.90	E	N
	ATOM	9066	CA	LEU	E	582	2.539	49.046	43.628	1.00	16.10	E	C
	ATOM	9067	CB	LEU	E	582	2.647	50.574	43.588	1.00	13.20	E	C
35	ATOM	9068	CG	LEU	E	582	1.789	51.235	44.665	1.00	9.75	E	C
	ATOM	9069	CD1	LEU	E	582	2.399	52.540	45.069	1.00	8.18	E	C
	ATOM	9070	CD2	LEU	E	582	0.370	51.420	44.147	1.00	10.02	E	C
	ATOM	9071	C	LEU	E	582	3.151	48.434	42.381	1.00	16.09	E	C
	ATOM	9072	O	LEU	E	582	2.474	48.223	41.374	1.00	15.45	E	O
40	ATOM	9073	N	MET	E	583	4.440	48.140	42.466	1.00	16.76	E	N
	ATOM	9074	CA	MET	E	583	5.157	47.540	41.363	1.00	16.62	E	C
	ATOM	9075	CB	MET	E	583	6.647	47.500	41.691	1.00	19.81	E	C
	ATOM	9076	CG	MET	E	583	7.501	46.825	40.646	1.00	27.47	E	C
	ATOM	9077	SD	MET	E	583	8.366	45.384	41.303	1.00	36.62	E	S
45	ATOM	9078	CE	MET	E	583	7.221	44.090	40.867	1.00	30.56	E	C
	ATOM	9079	C	MET	E	583	4.618	46.133	41.124	1.00	16.99	E	C
	ATOM	9080	O	MET	E	583	4.343	45.748	39.993	1.00	20.41	E	O
	ATOM	9081	N	THR	E	584	4.448	45.373	42.199	1.00	17.33	E	N
	ATOM	9082	CA	THR	E	584	3.950	43.999	42.109	1.00	15.07	E	C
50	ATOM	9083	CB	THR	E	584	4.074	43.292	43.492	1.00	15.78	E	C
	ATOM	9084	OG1	THR	E	584	5.441	42.928	43.719	1.00	9.62	E	O
	ATOM	9085	CG2	THR	E	584	3.226	42.036	43.546	1.00	14.38	E	C
	ATOM	9086	C	THR	E	584	2.496	43.959	41.617	1.00	14.26	E	C
	ATOM	9087	O	THR	E	584	2.068	43.004	40.956	1.00	10.61	E	O
55	ATOM	9088	N	ALA	E	585	1.737	44.999	41.944	1.00	14.24	E	N
	ATOM	9089	CA	ALA	E	585	0.346	45.078	41.517	1.00	14.75	E	C
	ATOM	9090	CB	ALA	E	585	-0.410	46.110	42.352	1.00	12.05	E	C
	ATOM	9091	C	ALA	E	585	0.309	45.465	40.040	1.00	15.54	E	C
	ATOM	9092	O	ALA	E	585	-0.630	45.120	39.330	1.00	16.28	E	O
60	ATOM	9093	N	PHE	E	586	1.327	46.186	39.580	1.00	15.15	E	N
	ATOM	9094	CA	PHE	E	586	1.386	46.582	38.178	1.00	16.34	E	C
	ATOM	9095	CB	PHE	E	586	2.602	47.490	37.929	1.00	13.43	E	C
	ATOM	9096	CG	PHE	E	586	2.863	47.783	36.471	1.00	11.73	E	C
	ATOM	9097	CD1	PHE	E	586	2.145	48.769	35.802	1.00	12.06	E	C
	ATOM	9098	CD2	PHE	E	586	3.820	47.059	35.763	1.00	12.21	E	C
65	ATOM	9099	CE1	PHE	E	586	2.375	49.025	34.452	1.00	11.29	E	C
	ATOM	9100	CE2	PHE	E	586	4.058	47.307	34.408	1.00	10.45	E	C
	ATOM	9101	CZ	PHE	E	586	3.339	48.286	33.752	1.00	11.23	E	C
	ATOM	9102	C	PHE	E	586	1.492	45.310	37.335	1.00	17.32	E	C

	ATOM	9103	O	PHE	E	586	1.018	45.261	36.201	1.00	18.89	E	O
	ATOM	9104	N	MET	E	587	2.103	44.278	37.913	1.00	17.15	E	N
	ATOM	9105	CA	MET	E	587	2.297	42.992	37.242	1.00	19.42	E	C
	ATOM	9106	CB	MET	E	587	3.551	42.277	37.784	1.00	18.59	E	C
5	ATOM	9107	CG	MET	E	587	4.875	43.005	37.654	1.00	21.38	E	C
	ATOM	9108	SD	MET	E	587	6.238	41.991	38.317	1.00	24.15	E	S
	ATOM	9109	CE	MET	E	587	6.079	40.483	37.331	1.00	22.70	E	C
	ATOM	9110	C	MET	E	587	1.142	41.995	37.402	1.00	18.84	E	C
10	ATOM	9111	O	MET	E	587	0.874	41.207	36.498	1.00	17.83	E	O
	ATOM	9112	N	THR	E	588	0.464	42.036	38.547	1.00	17.36	E	N
	ATOM	9113	CA	THR	E	588	-0.574	41.051	38.854	1.00	14.53	E	C
	ATOM	9114	CB	THR	E	588	-0.211	40.312	40.161	1.00	15.42	E	C
	ATOM	9115	OG1	THR	E	588	-0.090	41.274	41.221	1.00	14.75	E	O
15	ATOM	9116	CG2	THR	E	588	1.127	39.576	40.026	1.00	14.30	E	C
	ATOM	9117	C	THR	E	588	-2.039	41.440	39.007	1.00	14.53	E	C
	ATOM	9118	O	THR	E	588	-2.916	40.560	38.955	1.00	14.04	E	O
	ATOM	9119	N	ALA	E	589	-2.337	42.719	39.188	1.00	10.85	E	N
	ATOM	9120	CA	ALA	E	589	-3.728	43.087	39.414	1.00	12.34	E	C
20	ATOM	9121	CB	ALA	E	589	-3.822	43.880	40.705	1.00	9.60	E	C
	ATOM	9122	C	ALA	E	589	-4.467	43.828	38.308	1.00	14.05	E	C
	ATOM	9123	O	ALA	E	589	-3.900	44.693	37.637	1.00	14.14	E	O
	ATOM	9124	N	ASP	E	590	-5.746	43.492	38.140	1.00	11.94	E	N
	ATOM	9125	CA	ASP	E	590	-6.584	44.139	37.146	1.00	15.29	E	C
25	ATOM	9126	CB	ASP	E	590	-7.960	43.477	37.114	1.00	16.21	E	C
	ATOM	9127	CG	ASP	E	590	-8.862	44.049	36.031	1.00	18.61	E	C
	ATOM	9128	OD1	ASP	E	590	-9.491	45.100	36.284	1.00	18.02	E	O
	ATOM	9129	OD2	ASP	E	590	-8.946	43.452	34.930	1.00	17.58	E	O
	ATOM	9130	C	ASP	E	590	-6.695	45.610	37.557	1.00	18.27	E	C
30	ATOM	9131	O	ASP	E	590	-6.520	46.513	36.741	1.00	19.09	E	O
	ATOM	9132	N	ASN	E	591	-6.984	45.835	38.836	1.00	19.33	E	N
	ATOM	9133	CA	ASN	E	591	-7.079	47.179	39.406	1.00	14.74	E	C
	ATOM	9134	CB	ASN	E	591	-8.441	47.826	39.086	1.00	13.64	E	C
	ATOM	9135	CG	ASN	E	591	-9.607	47.119	39.738	1.00	10.72	E	C
35	ATOM	9136	OD1	ASN	E	591	-10.300	46.322	39.113	1.00	13.92	E	O
	ATOM	9137	ND2	ASN	E	591	-9.840	47.422	40.995	1.00	14.56	E	N
	ATOM	9138	C	ASN	E	591	-6.829	47.080	40.921	1.00	15.67	E	C
	ATOM	9139	O	ASN	E	591	-6.786	45.983	41.469	1.00	12.96	E	O
	ATOM	9140	N	ILE	E	592	-6.647	48.222	41.586	1.00	17.74	E	N
40	ATOM	9141	CA	ILE	E	592	-6.361	48.256	43.022	1.00	14.73	E	C
	ATOM	9142	CB	ILE	E	592	-4.897	48.703	43.294	1.00	14.03	E	C
	ATOM	9143	CG2	ILE	E	592	-3.909	47.784	42.592	1.00	13.03	E	C
	ATOM	9144	CG1	ILE	E	592	-4.708	50.144	42.808	1.00	10.55	E	C
	ATOM	9145	CD1	ILE	E	592	-3.408	50.787	43.262	1.00	7.83	E	C
45	ATOM	9146	C	ILE	E	592	-7.246	49.224	43.798	1.00	14.69	E	C
	ATOM	9147	O	ILE	E	592	-8.086	49.930	43.224	1.00	10.02	E	O
	ATOM	9148	N	SER	E	593	-7.027	49.241	45.115	1.00	13.22	E	N
	ATOM	9149	CA	SER	E	593	-7.725	50.136	46.035	1.00	11.94	E	C
	ATOM	9150	CB	SER	E	593	-8.490	49.354	47.088	1.00	11.04	E	C
50	ATOM	9151	OG	SER	E	593	-9.555	48.638	46.511	1.00	16.02	E	O
	ATOM	9152	C	SER	E	593	-6.652	50.966	46.728	1.00	12.53	E	C
	ATOM	9153	O	SER	E	593	-5.569	50.445	47.033	1.00	12.21	E	O
	ATOM	9154	N	HIS	E	594	-6.961	52.245	46.962	1.00	11.27	E	N
	ATOM	9155	CA	HIS	E	594	-6.063	53.214	47.621	1.00	10.80	E	C
55	ATOM	9156	CB	HIS	E	594	-5.344	52.577	48.827	1.00	10.60	E	C
	ATOM	9157	CG	HIS	E	594	-6.258	52.241	49.965	1.00	10.41	E	C
	ATOM	9158	CD2	HIS	E	594	-6.480	51.075	50.619	1.00	8.53	E	C
	ATOM	9159	ND1	HIS	E	594	-7.135	53.156	50.511	1.00	12.17	E	N
	ATOM	9160	CE1	HIS	E	594	-7.860	52.567	51.448	1.00	7.88	E	C
60	ATOM	9161	NE2	HIS	E	594	-7.481	51.304	51.532	1.00	8.88	E	N
	ATOM	9162	C	HIS	E	594	-5.045	53.821	46.661	1.00	9.68	E	C
	ATOM	9163	O	HIS	E	594	-5.282	54.885	46.101	1.00	13.48	E	O
	ATOM	9164	N	GLY	E	595	-3.913	53.159	46.472	1.00	9.59	E	N
	ATOM	9165	CA	GLY	E	595	-2.906	53.672	45.558	1.00	11.40	E	C
65	ATOM	9166	C	GLY	E	595	-2.250	54.997	45.907	1.00	12.32	E	C
	ATOM	9167	O	GLY	E	595	-1.645	55.632	45.051	1.00	13.93	E	O
	ATOM	9168	N	LEU	E	596	-2.329	55.407	47.167	1.00	15.20	E	N
	ATOM	9169	CA	LEU	E	596	-1.749	56.680	47.607	1.00	14.08	E	C
	ATOM	9170	CB	LEU	E	596	-1.979	56.870	49.107	1.00	13.93	E	C

	ATOM	9171	CG	LEU	E	596	-3.431	56.921	49.564	1.00	14.08	E	C
	ATOM	9172	CD1	LEU	E	596	-3.483	57.035	51.087	1.00	11.72	E	C
	ATOM	9173	CD2	LEU	E	596	-4.123	58.096	48.885	1.00	9.04	E	C
5	ATOM	9174	C	LEU	E	596	-0.263	56.844	47.329	1.00	13.11	E	C
	ATOM	9175	O	LEU	E	596	0.186	57.904	46.898	1.00	10.21	E	O
	ATOM	9176	N	ASN	E	597	0.501	55.792	47.590	1.00	12.40	E	N
	ATOM	9177	CA	ASN	E	597	1.937	55.840	47.397	1.00	13.74	E	C
	ATOM	9178	CB	ASN	E	597	2.577	54.595	48.018	1.00	12.66	E	C
10	ATOM	9179	CG	ASN	E	597	2.749	54.727	49.522	1.00	15.42	E	C
	ATOM	9180	OD1	ASN	E	597	2.591	55.818	50.087	1.00	18.29	E	O
	ATOM	9181	ND2	ASN	E	597	3.075	53.620	50.180	1.00	12.97	E	N
	ATOM	9182	C	ASN	E	597	2.425	56.035	45.959	1.00	14.46	E	C
	ATOM	9183	O	ASN	E	597	3.633	56.115	45.726	1.00	15.42	E	O
15	ATOM	9184	N	LEU	E	598	1.517	56.105	44.991	1.00	11.50	E	N
	ATOM	9185	CA	LEU	E	598	1.958	56.344	43.621	1.00	15.00	E	C
	ATOM	9186	CB	LEU	E	598	0.789	56.251	42.637	1.00	13.49	E	C
	ATOM	9187	CG	LEU	E	598	0.304	54.828	42.353	1.00	12.22	E	C
	ATOM	9188	CD1	LEU	E	598	-1.007	54.858	41.583	1.00	6.69	E	C
20	ATOM	9189	CD2	LEU	E	598	1.389	54.078	41.590	1.00	9.27	E	C
	ATOM	9190	C	LEU	E	598	2.536	57.760	43.615	1.00	17.44	E	C
	ATOM	9191	O	LEU	E	598	3.330	58.124	42.748	1.00	19.44	E	O
	ATOM	9192	N	LYS	E	599	2.137	58.544	44.614	1.00	20.83	E	N
	ATOM	9193	CA	LYS	E	599	2.596	59.921	44.784	1.00	23.39	E	C
	ATOM	9194	CB	LYS	E	599	2.007	60.519	46.063	1.00	24.81	E	C
25	ATOM	9195	CG	LYS	E	599	0.789	61.374	45.851	1.00	31.79	E	C
	ATOM	9196	CD	LYS	E	599	1.165	62.850	45.749	1.00	40.23	E	C
	ATOM	9197	CE	LYS	E	599	0.365	63.569	44.652	1.00	39.99	E	C
	ATOM	9198	NZ	LYS	E	599	1.178	63.779	43.416	1.00	40.47	E	N
	ATOM	9199	C	LYS	E	599	4.109	59.972	44.904	1.00	23.93	E	C
30	ATOM	9200	O	LYS	E	599	4.751	60.925	44.454	1.00	24.03	E	O
	ATOM	9201	N	LYS	E	600	4.675	58.946	45.527	1.00	22.96	E	N
	ATOM	9202	CA	LYS	E	600	6.112	58.896	45.739	1.00	23.52	E	C
	ATOM	9203	CB	LYS	E	600	6.410	58.118	47.018	1.00	24.17	E	C
35	ATOM	9204	CG	LYS	E	600	5.596	58.573	48.208	1.00	28.79	E	C
	ATOM	9205	CD	LYS	E	600	6.011	57.832	49.462	1.00	30.60	E	C
	ATOM	9206	CE	LYS	E	600	5.161	58.245	50.650	1.00	35.38	E	C
	ATOM	9207	NZ	LYS	E	600	5.275	57.267	51.772	1.00	37.69	E	N
	ATOM	9208	C	LYS	E	600	6.933	58.315	44.596	1.00	21.75	E	C
	ATOM	9209	O	LYS	E	600	8.158	58.346	44.645	1.00	22.12	E	O
40	ATOM	9210	N	SER	E	601	6.275	57.795	43.566	1.00	19.98	E	N
	ATOM	9211	CA	SER	E	601	7.006	57.200	42.452	1.00	20.08	E	C
	ATOM	9212	CB	SER	E	601	6.886	55.675	42.497	1.00	19.27	E	C
	ATOM	9213	OG	SER	E	601	7.749	55.078	41.545	1.00	17.66	E	O
	ATOM	9214	C	SER	E	601	6.551	57.683	41.086	1.00	19.35	E	C
45	ATOM	9215	O	SER	E	601	5.506	57.261	40.590	1.00	20.73	E	O
	ATOM	9216	N	PRO	E	602	7.323	58.585	40.463	1.00	17.78	E	N
	ATOM	9217	CD	PRO	E	602	8.561	59.189	40.979	1.00	19.22	E	C
	ATOM	9218	CA	PRO	E	602	6.972	59.106	39.137	1.00	16.50	E	C
	ATOM	9219	CB	PRO	E	602	8.094	60.101	38.829	1.00	19.68	E	C
50	ATOM	9220	CG	PRO	E	602	9.228	59.701	39.738	1.00	19.20	E	C
	ATOM	9221	C	PRO	E	602	6.900	57.989	38.096	1.00	15.48	E	C
	ATOM	9222	O	PRO	E	602	6.003	57.965	37.253	1.00	15.24	E	O
	ATOM	9223	N	VAL	E	603	7.841	57.056	38.164	1.00	15.53	E	N
55	ATOM	9224	CA	VAL	E	603	7.863	55.951	37.212	1.00	15.60	E	C
	ATOM	9225	CB	VAL	E	603	9.113	55.056	37.391	1.00	14.20	E	C
	ATOM	9226	CG1	VAL	E	603	9.092	53.940	36.353	1.00	15.22	E	C
	ATOM	9227	CG2	VAL	E	603	10.382	55.880	37.236	1.00	5.51	E	C
	ATOM	9228	C	VAL	E	603	6.618	55.082	37.324	1.00	14.54	E	C
	ATOM	9229	O	VAL	E	603	5.957	54.812	36.318	1.00	15.37	E	O
60	ATOM	9230	N	LEU	E	604	6.285	54.652	38.540	1.00	13.21	E	N
	ATOM	9231	CA	LEU	E	604	5.108	53.808	38.731	1.00	11.61	E	C
	ATOM	9232	CB	LEU	E	604	5.097	53.198	40.132	1.00	13.20	E	C
	ATOM	9233	CG	LEU	E	604	5.955	51.948	40.355	1.00	12.54	E	C
	ATOM	9234	CD1	LEU	E	604	6.185	51.741	41.851	1.00	9.93	E	C
65	ATOM	9235	CD2	LEU	E	604	5.265	50.745	39.763	1.00	8.34	E	C
	ATOM	9236	C	LEU	E	604	3.812	54.580	38.506	1.00	11.14	E	C
	ATOM	9237	O	LEU	E	604	2.836	54.026	37.997	1.00	13.64	E	O
	ATOM	9238	N	GLN	E	605	3.793	55.853	38.885	1.00	8.14	E	N

	ATOM	9239	CA	GLN	E	605	2.602	56.671	38.694	1.00	8.39	E	C
	ATOM	9240	CB	GLN	E	605	2.777	58.034	39.358	1.00	7.68	E	C
	ATOM	9241	CG	GLN	E	605	1.528	58.911	39.318	1.00	6.84	E	C
5	ATOM	9242	CD	GLN	E	605	1.780	60.282	39.898	1.00	11.34	E	C
	ATOM	9243	OE1	GLN	E	605	2.585	60.427	40.824	1.00	15.01	E	O
	ATOM	9244	NE2	GLN	E	605	1.103	61.301	39.364	1.00	5.71	E	N
	ATOM	9245	C	GLN	E	605	2.320	56.864	37.206	1.00	10.27	E	C
	ATOM	9246	O	GLN	E	605	1.171	56.796	36.765	1.00	5.61	E	O
10	ATOM	9247	N	TYR	E	606	3.377	57.107	36.438	1.00	11.49	E	N
	ATOM	9248	CA	TYR	E	606	3.243	57.297	34.995	1.00	12.23	E	C
	ATOM	9249	CB	TYR	E	606	4.584	57.757	34.394	1.00	12.77	E	C
	ATOM	9250	CG	TYR	E	606	4.496	58.262	32.965	1.00	13.93	E	C
	ATOM	9251	CD1	TYR	E	606	3.582	59.251	32.609	1.00	13.73	E	C
15	ATOM	9252	CE1	TYR	E	606	3.500	59.717	31.290	1.00	14.66	E	C
	ATOM	9253	CD2	TYR	E	606	5.331	57.747	31.966	1.00	15.43	E	C
	ATOM	9254	CE2	TYR	E	606	5.258	58.203	30.645	1.00	10.81	E	C
	ATOM	9255	CZ	TYR	E	606	4.343	59.185	30.315	1.00	14.36	E	C
	ATOM	9256	OH	TYR	E	606	4.258	59.642	29.016	1.00	14.65	E	O
20	ATOM	9257	C	TYR	E	606	2.784	55.982	34.357	1.00	9.82	E	C
	ATOM	9258	O	TYR	E	606	1.927	55.984	33.472	1.00	7.57	E	O
	ATOM	9259	N	LEU	E	607	3.343	54.865	34.825	1.00	8.68	E	N
	ATOM	9260	CA	LEU	E	607	2.985	53.546	34.297	1.00	9.83	E	C
	ATOM	9261	CB	LEU	E	607	3.838	52.461	34.950	1.00	7.25	E	C
25	ATOM	9262	CG	LEU	E	607	5.240	52.317	34.366	1.00	8.83	E	C
	ATOM	9263	CD1	LEU	E	607	6.018	51.276	35.140	1.00	4.67	E	C
	ATOM	9264	CD2	LEU	E	607	5.133	51.943	32.899	1.00	9.89	E	C
	ATOM	9265	C	LEU	E	607	1.514	53.234	34.523	1.00	8.64	E	C
	ATOM	9266	O	LEU	E	607	0.875	52.592	33.697	1.00	9.67	E	O
30	ATOM	9267	N	PHE	E	608	0.979	53.689	35.649	1.00	11.78	E	N
	ATOM	9268	CA	PHE	E	608	-0.427	53.459	35.966	1.00	10.03	E	C
	ATOM	9269	CB	PHE	E	608	-0.700	53.785	37.439	1.00	11.23	E	C
	ATOM	9270	CG	PHE	E	608	-0.597	52.590	38.355	1.00	7.21	E	C
	ATOM	9271	CD1	PHE	E	608	0.624	51.968	38.570	1.00	7.00	E	C
35	ATOM	9272	CD2	PHE	E	608	-1.729	52.082	38.988	1.00	5.11	E	C
	ATOM	9273	CE1	PHE	E	608	0.722	50.853	39.403	1.00	7.24	E	C
	ATOM	9274	CE2	PHE	E	608	-1.643	50.969	39.818	1.00	2.16	E	C
	ATOM	9275	CZ	PHE	E	608	-0.414	50.353	40.026	1.00	4.90	E	C
	ATOM	9276	C	PHE	E	608	-1.308	54.322	35.072	1.00	8.36	E	C
40	ATOM	9277	O	PHE	E	608	-2.469	53.998	34.834	1.00	11.69	E	O
	ATOM	9278	N	PHE	E	609	-0.760	55.431	34.590	1.00	9.79	E	N
	ATOM	9279	CA	PHE	E	609	-1.499	56.312	33.694	1.00	8.98	E	C
	ATOM	9280	CB	PHE	E	609	-0.835	57.695	33.612	1.00	9.66	E	C
	ATOM	9281	CG	PHE	E	609	-1.340	58.535	32.468	1.00	11.51	E	C
45	ATOM	9282	CD1	PHE	E	609	-0.599	58.654	31.290	1.00	11.43	E	C
	ATOM	9283	CD2	PHE	E	609	-2.584	59.153	32.540	1.00	8.70	E	C
	ATOM	9284	CE1	PHE	E	609	-1.094	59.372	30.199	1.00	8.27	E	C
	ATOM	9285	CE2	PHE	E	609	-3.088	59.872	31.457	1.00	8.47	E	C
	ATOM	9286	CZ	PHE	E	609	-2.342	59.982	30.283	1.00	7.54	E	C
50	ATOM	9287	C	PHE	E	609	-1.496	55.667	32.306	1.00	9.67	E	C
	ATOM	9288	O	PHE	E	609	-2.543	55.512	31.681	1.00	9.07	E	O
	ATOM	9289	N	LEU	E	610	-0.309	55.285	31.840	1.00	8.16	E	N
	ATOM	9290	CA	LEU	E	610	-0.156	54.660	30.528	1.00	10.50	E	C
	ATOM	9291	CB	LEU	E	610	1.310	54.311	30.264	1.00	7.52	E	C
55	ATOM	9292	CG	LEU	E	610	2.310	55.451	30.136	1.00	4.14	E	C
	ATOM	9293	CD1	LEU	E	610	3.693	54.866	29.979	1.00	2.97	E	C
	ATOM	9294	CD2	LEU	E	610	1.945	56.332	28.951	1.00	3.96	E	C
	ATOM	9295	C	LEU	E	610	-0.990	53.394	30.386	1.00	10.73	E	C
	ATOM	9296	O	LEU	E	610	-1.626	53.179	29.351	1.00	16.52	E	O
60	ATOM	9297	N	ALA	E	611	-0.973	52.549	31.413	1.00	9.10	E	N
	ATOM	9298	CA	ALA	E	611	-1.739	51.303	31.396	1.00	10.10	E	C
	ATOM	9299	CB	ALA	E	611	-1.097	50.284	32.330	1.00	6.41	E	C
	ATOM	9300	C	ALA	E	611	-3.195	51.531	31.789	1.00	9.20	E	C
	ATOM	9301	O	ALA	E	611	-4.026	50.632	31.679	1.00	12.74	E	O
65	ATOM	9302	N	GLN	E	612	-3.497	52.740	32.249	1.00	12.75	E	N
	ATOM	9303	CA	GLN	E	612	-4.851	53.104	32.665	1.00	14.05	E	C
	ATOM	9304	CB	GLN	E	612	-5.776	53.161	31.446	1.00	13.60	E	C
	ATOM	9305	CG	GLN	E	612	-5.680	54.463	30.665	1.00	12.53	E	C
	ATOM	9306	CD	GLN	E	612	-6.022	55.670	31.510	1.00	14.90	E	C

	ATOM	9307	OE1	GLN	E	612	-7.180	55.887	31.864	1.00	13.42	E	O
	ATOM	9308	NE2	GLN	E	612	-5.016	56.461	31.844	1.00	14.08	E	N
	ATOM	9309	C	GLN	E	612	-5.421	52.136	33.707	1.00	14.90	E	C
	ATOM	9310	O	GLN	E	612	-6.568	51.687	33.600	1.00	16.26	E	O
5	ATOM	9311	N	ILE	E	613	-4.623	51.830	34.725	1.00	12.95	E	N
	ATOM	9312	CA	ILE	E	613	-5.055	50.913	35.770	1.00	10.67	E	C
	ATOM	9313	CB	ILE	E	613	-3.843	50.421	36.590	1.00	7.88	E	C
	ATOM	9314	CG2	ILE	E	613	-4.275	49.321	37.550	1.00	6.31	E	C
	ATOM	9315	CG1	ILE	E	613	-2.746	49.930	35.640	1.00	4.51	E	C
10	ATOM	9316	CD1	ILE	E	613	-1.531	49.295	36.321	1.00	7.08	E	C
	ATOM	9317	C	ILE	E	613	-6.072	51.568	36.708	1.00	9.23	E	C
	ATOM	9318	O	ILE	E	613	-5.780	52.568	37.346	1.00	11.53	E	O
	ATOM	9319	N	PRO	E	614	-7.292	51.014	36.787	1.00	7.24	E	N
	ATOM	9320	CD	PRO	E	614	-7.780	49.838	36.058	1.00	2.74	E	C
15	ATOM	9321	CA	PRO	E	614	-8.324	51.574	37.667	1.00	6.47	E	C
	ATOM	9322	CB	PRO	E	614	-9.513	50.638	37.465	1.00	3.92	E	C
	ATOM	9323	CG	PRO	E	614	-9.255	49.970	36.181	1.00	2.91	E	C
	ATOM	9324	C	PRO	E	614	-7.870	51.604	39.132	1.00	7.46	E	C
	ATOM	9325	O	PRO	E	614	-7.282	50.648	39.634	1.00	3.47	E	O
20	ATOM	9326	N	ILE	E	615	-8.146	52.711	39.810	1.00	10.02	E	N
	ATOM	9327	CA	ILE	E	615	-7.766	52.872	41.210	1.00	10.50	E	C
	ATOM	9328	CB	ILE	E	615	-6.650	53.928	41.371	1.00	10.90	E	C
	ATOM	9329	CG2	ILE	E	615	-6.289	54.097	42.839	1.00	12.50	E	C
	ATOM	9330	CG1	ILE	E	615	-5.411	53.509	40.579	1.00	12.03	E	C
25	ATOM	9331	CD1	ILE	E	615	-4.429	54.653	40.355	1.00	9.72	E	C
	ATOM	9332	C	ILE	E	615	-8.964	53.333	42.027	1.00	11.96	E	C
	ATOM	9333	O	ILE	E	615	-9.517	54.399	41.756	1.00	12.23	E	O
	ATOM	9334	N	ALA	E	616	-9.384	52.531	43.007	1.00	12.77	E	N
	ATOM	9335	CA	ALA	E	616	-10.519	52.922	43.850	1.00	11.92	E	C
30	ATOM	9336	CB	ALA	E	616	-11.287	51.691	44.311	1.00	9.65	E	C
	ATOM	9337	C	ALA	E	616	-9.985	53.694	45.059	1.00	12.06	E	C
	ATOM	9338	O	ALA	E	616	-9.298	53.125	45.922	1.00	9.35	E	O
	ATOM	9339	N	MET	E	617	-10.292	54.987	45.125	1.00	10.10	E	N
	ATOM	9340	CA	MET	E	617	-9.817	55.803	46.230	1.00	8.05	E	C
35	ATOM	9341	CB	MET	E	617	-9.274	57.130	45.705	1.00	10.31	E	C
	ATOM	9342	CG	MET	E	617	-8.366	56.990	44.476	1.00	14.55	E	C
	ATOM	9343	SD	MET	E	617	-6.960	58.140	44.487	1.00	15.43	E	S
	ATOM	9344	CE	MET	E	617	-7.563	59.313	43.437	1.00	20.93	E	C
	ATOM	9345	C	MET	E	617	-10.897	56.052	47.271	1.00	9.36	E	C
40	ATOM	9346	O	MET	E	617	-12.095	55.956	46.981	1.00	6.91	E	O
	ATOM	9347	N	SER	E	618	-10.450	56.371	48.489	1.00	13.42	E	N
	ATOM	9348	CA	SER	E	618	-11.326	56.637	49.638	1.00	12.76	E	C
	ATOM	9349	CB	SER	E	618	-11.494	55.374	50.479	1.00	10.37	E	C
	ATOM	9350	OG	SER	E	618	-11.689	54.230	49.666	1.00	10.99	E	O
45	ATOM	9351	C	SER	E	618	-10.721	57.709	50.524	1.00	11.12	E	C
	ATOM	9352	O	SER	E	618	-10.128	57.398	51.545	1.00	14.32	E	O
	ATOM	9353	N	PRO	E	619	-10.842	58.983	50.139	1.00	12.95	E	N
	ATOM	9354	CD	PRO	E	619	-11.467	59.459	48.894	1.00	13.90	E	C
	ATOM	9355	CA	PRO	E	619	-10.291	60.091	50.929	1.00	12.63	E	C
50	ATOM	9356	CB	PRO	E	619	-10.680	61.331	50.131	1.00	12.49	E	C
	ATOM	9357	CG	PRO	E	619	-10.876	60.830	48.735	1.00	13.93	E	C
	ATOM	9358	C	PRO	E	619	-10.735	60.185	52.391	1.00	13.77	E	C
	ATOM	9359	O	PRO	E	619	-9.931	60.544	53.241	1.00	16.91	E	O
	ATOM	9360	N	LEU	E	620	-11.995	59.871	52.691	1.00	15.24	E	N
55	ATOM	9361	CA	LEU	E	620	-12.483	59.945	54.076	1.00	13.23	E	C
	ATOM	9362	CB	LEU	E	620	-14.006	59.794	54.120	1.00	12.49	E	C
	ATOM	9363	CG	LEU	E	620	-14.764	61.058	53.685	1.00	15.70	E	C
	ATOM	9364	CD1	LEU	E	620	-16.260	60.793	53.585	1.00	10.95	E	C
	ATOM	9365	CD2	LEU	E	620	-14.482	62.170	54.681	1.00	14.47	E	C
60	ATOM	9366	C	LEU	E	620	-11.832	58.880	54.952	1.00	15.39	E	C
	ATOM	9367	O	LEU	E	620	-11.480	59.136	56.110	1.00	17.57	E	O
	ATOM	9368	N	SER	E	621	-11.670	57.685	54.400	1.00	14.95	E	N
	ATOM	9369	CA	SER	E	621	-11.033	56.604	55.124	1.00	12.41	E	C
	ATOM	9370	CB	SER	E	621	-11.133	55.320	54.314	1.00	14.41	E	C
65	ATOM	9371	OG	SER	E	621	-10.306	54.307	54.836	1.00	16.75	E	O
	ATOM	9372	C	SER	E	621	-9.573	56.978	55.369	1.00	17.04	E	C
	ATOM	9373	O	SER	E	621	-9.075	56.840	56.486	1.00	16.58	E	O
	ATOM	9374	N	ASN	E	622	-8.890	57.477	54.334	1.00	17.52	E	N

	ATOM	9375	CA	ASN E 622	-7.482	57.874	54.463	1.00	16.28	E	C
	ATOM	9376	CB	ASN E 622	-6.928	58.380	53.127	1.00	16.21	E	C
	ATOM	9377	CG	ASN E 622	-7.061	57.369	52.004	1.00	18.12	E	C
	ATOM	9378	OD1	ASN E 622	-7.116	57.746	50.832	1.00	19.32	E	O
5	ATOM	9379	ND2	ASN E 622	-7.102	56.085	52.348	1.00	16.03	E	N
	ATOM	9380	C	ASN E 622	-7.301	58.981	55.503	1.00	16.13	E	C
	ATOM	9381	O	ASN E 622	-6.324	58.998	56.252	1.00	16.92	E	O
	ATOM	9382	N	ASN E 623	-8.242	59.915	55.529	1.00	15.58	E	N
10	ATOM	9383	CA	ASN E 623	-8.208	61.035	56.463	1.00	20.99	E	C
	ATOM	9384	CB	ASN E 623	-9.365	61.990	56.134	1.00	19.17	E	C
	ATOM	9385	CG	ASN E 623	-9.492	63.140	57.116	1.00	19.77	E	C
	ATOM	9386	OD1	ASN E 623	-10.511	63.269	57.799	1.00	18.32	E	O
	ATOM	9387	ND2	ASN E 623	-8.470	63.990	57.181	1.00	15.11	E	N
	ATOM	9388	C	ASN E 623	-8.305	60.540	57.906	1.00	26.03	E	C
15	ATOM	9389	O	ASN E 623	-7.767	61.148	58.819	1.00	26.58	E	O
	ATOM	9390	N	SER E 624	-8.987	59.420	58.100	1.00	30.65	E	N
	ATOM	9391	CA	SER E 624	-9.153	58.852	59.425	1.00	34.43	E	C
	ATOM	9392	CB	SER E 624	-10.517	58.182	59.532	1.00	35.52	E	C
	ATOM	9393	OG	SER E 624	-11.273	58.739	60.586	1.00	40.32	E	O
20	ATOM	9394	C	SER E 624	-8.092	57.813	59.738	1.00	37.67	E	C
	ATOM	9395	O	SER E 624	-7.999	57.346	60.875	1.00	41.71	E	O
	ATOM	9396	N	LEU E 625	-7.280	57.465	58.747	1.00	40.50	E	N
	ATOM	9397	CA	LEU E 625	-6.284	56.422	58.942	1.00	42.38	E	C
	ATOM	9398	CB	LEU E 625	-6.710	55.203	58.112	1.00	45.11	E	C
25	ATOM	9399	CG	LEU E 625	-7.000	53.854	58.784	1.00	47.74	E	C
	ATOM	9400	CD1	LEU E 625	-6.275	53.777	60.115	1.00	51.97	E	C
	ATOM	9401	CD2	LEU E 625	-8.487	53.672	58.989	1.00	44.64	E	C
	ATOM	9402	C	LEU E 625	-4.805	56.750	58.657	1.00	40.95	E	C
	ATOM	9403	O	LEU E 625	-3.947	56.466	59.485	1.00	41.44	E	O
30	ATOM	9404	N	PHE E 626	-4.503	57.341	57.503	1.00	40.04	E	N
	ATOM	9405	CA	PHE E 626	-3.110	57.619	57.152	1.00	39.18	E	C
	ATOM	9406	CB	PHE E 626	-2.623	56.569	56.147	1.00	39.68	E	C
	ATOM	9407	CG	PHE E 626	-2.563	55.166	56.695	1.00	40.31	E	C
	ATOM	9408	CD1	PHE E 626	-1.426	54.712	57.362	1.00	39.32	E	C
35	ATOM	9409	CD2	PHE E 626	-3.632	54.287	56.517	1.00	42.35	E	C
	ATOM	9410	CE1	PHE E 626	-1.355	53.401	57.844	1.00	40.90	E	C
	ATOM	9411	CE2	PHE E 626	-3.574	52.971	56.995	1.00	39.79	E	C
	ATOM	9412	CZ	PHE E 626	-2.434	52.528	57.660	1.00	41.09	E	C
	ATOM	9413	C	PHE E 626	-2.764	59.006	56.594	1.00	37.11	E	C
40	ATOM	9414	O	PHE E 626	-1.664	59.494	56.825	1.00	36.67	E	O
	ATOM	9415	N	LEU E 627	-3.686	59.633	55.863	1.00	37.33	E	N
	ATOM	9416	CA	LEU E 627	-3.422	60.940	55.258	1.00	33.13	E	C
	ATOM	9417	CB	LEU E 627	-3.226	60.776	53.749	1.00	31.67	E	C
	ATOM	9418	CG	LEU E 627	-2.025	61.374	53.017	1.00	31.97	E	C
45	ATOM	9419	CD1	LEU E 627	-2.436	61.641	51.578	1.00	30.67	E	C
	ATOM	9420	CD2	LEU E 627	-1.544	62.647	53.684	1.00	28.59	E	C
	ATOM	9421	C	LEU E 627	-4.540	61.944	55.491	1.00	31.42	E	C
	ATOM	9422	O	LEU E 627	-5.709	61.643	55.270	1.00	33.34	E	O
	ATOM	9423	N	GLU E 628	-4.172	63.146	55.915	1.00	30.20	E	N
50	ATOM	9424	CA	GLU E 628	-5.142	64.208	56.161	1.00	29.60	E	C
	ATOM	9425	CB	GLU E 628	-4.412	65.432	56.720	1.00	32.84	E	C
	ATOM	9426	CG	GLU E 628	-5.013	66.769	56.364	1.00	41.68	E	C
	ATOM	9427	CD	GLU E 628	-4.092	67.927	56.709	1.00	47.03	E	C
	ATOM	9428	OE1	GLU E 628	-2.929	67.676	57.090	1.00	49.74	E	O
55	ATOM	9429	OE2	GLU E 628	-4.534	69.091	56.597	1.00	50.57	E	O
	ATOM	9430	C	GLU E 628	-5.862	64.540	54.847	1.00	27.26	E	C
	ATOM	9431	O	GLU E 628	-5.235	64.602	53.790	1.00	27.73	E	O
	ATOM	9432	N	TYR E 629	-7.172	64.758	54.914	1.00	23.38	E	N
	ATOM	9433	CA	TYR E 629	-7.966	65.034	53.719	1.00	23.38	E	C
60	ATOM	9434	CB	TYR E 629	-9.361	65.547	54.092	1.00	18.08	E	C
	ATOM	9435	CG	TYR E 629	-10.388	65.208	53.032	1.00	18.01	E	C
	ATOM	9436	CD1	TYR E 629	-10.550	66.010	51.902	1.00	17.51	E	C
	ATOM	9437	CE1	TYR E 629	-11.432	65.648	50.885	1.00	17.92	E	C
	ATOM	9438	CD2	TYR E 629	-11.143	64.043	53.117	1.00	16.68	E	C
65	ATOM	9439	CE2	TYR E 629	-12.023	63.676	52.109	1.00	16.06	E	C
	ATOM	9440	CZ	TYR E 629	-12.161	64.476	50.997	1.00	17.74	E	C
	ATOM	9441	OH	TYR E 629	-13.008	64.081	49.989	1.00	19.85	E	O
	ATOM	9442	C	TYR E 629	-7.372	65.972	52.669	1.00	25.58	E	C

	ATOM	9443	O	TYR	E	629	-7.154	65.572	51.522	1.00	23.80	E	O
	ATOM	9444	N	ALA	E	630	-7.116	67.217	53.056	1.00	27.14	E	N
	ATOM	9445	CA	ALA	E	630	-6.588	68.208	52.127	1.00	24.70	E	C
	ATOM	9446	CB	ALA	E	630	-6.471	69.563	52.824	1.00	23.85	E	C
5	ATOM	9447	C	ALA	E	630	-5.257	67.830	51.485	1.00	25.74	E	C
	ATOM	9448	O	ALA	E	630	-4.802	68.507	50.567	1.00	28.58	E	O
	ATOM	9449	N	LYS	E	631	-4.638	66.751	51.951	1.00	24.05	E	N
	ATOM	9450	CA	LYS	E	631	-3.358	66.321	51.395	1.00	21.89	E	C
	ATOM	9451	CB	LYS	E	631	-2.385	65.973	52.528	1.00	25.40	E	C
10	ATOM	9452	CG	LYS	E	631	-1.599	67.159	53.098	1.00	30.15	E	C
	ATOM	9453	CD	LYS	E	631	-2.408	68.451	53.070	1.00	36.49	E	C
	ATOM	9454	CE	LYS	E	631	-1.510	69.689	53.043	1.00	41.23	E	C
	ATOM	9455	NZ	LYS	E	631	-2.034	70.799	53.906	1.00	43.93	E	N
	ATOM	9456	C	LYS	E	631	-3.529	65.110	50.480	1.00	20.94	E	C
15	ATOM	9457	O	LYS	E	631	-2.548	64.561	49.977	1.00	20.30	E	O
	ATOM	9458	N	ASN	E	632	-4.774	64.694	50.261	1.00	18.52	E	N
	ATOM	9459	CA	ASN	E	632	-5.043	63.536	49.410	1.00	18.17	E	C
	ATOM	9460	CB	ASN	E	632	-6.505	63.104	49.547	1.00	15.49	E	C
	ATOM	9461	CG	ASN	E	632	-6.711	61.657	49.178	1.00	14.27	E	C
20	ATOM	9462	OD1	ASN	E	632	-6.881	60.806	50.044	1.00	16.80	E	O
	ATOM	9463	ND2	ASN	E	632	-6.689	61.367	47.884	1.00	13.20	E	N
	ATOM	9464	C	ASN	E	632	-4.722	63.767	47.934	1.00	15.26	E	C
	ATOM	9465	O	ASN	E	632	-5.097	64.784	47.361	1.00	15.75	E	O
	ATOM	9466	N	PRO	E	633	-4.015	62.818	47.301	1.00	15.98	E	N
25	ATOM	9467	CD	PRO	E	633	-3.473	61.570	47.877	1.00	16.21	E	C
	ATOM	9468	CA	PRO	E	633	-3.667	62.966	45.884	1.00	15.09	E	C
	ATOM	9469	CB	PRO	E	633	-2.539	61.959	45.682	1.00	13.65	E	C
	ATOM	9470	CG	PRO	E	633	-2.765	60.920	46.722	1.00	14.93	E	C
	ATOM	9471	C	PRO	E	633	-4.834	62.722	44.922	1.00	14.93	E	C
30	ATOM	9472	O	PRO	E	633	-4.646	62.706	43.715	1.00	14.32	E	O
	ATOM	9473	N	PHE	E	634	-6.037	62.548	45.452	1.00	15.34	E	N
	ATOM	9474	CA	PHE	E	634	-7.202	62.295	44.610	1.00	15.26	E	C
	ATOM	9475	CB	PHE	E	634	-8.487	62.271	45.456	1.00	13.05	E	C
	ATOM	9476	CG	PHE	E	634	-9.753	62.237	44.632	1.00	14.23	E	C
35	ATOM	9477	CD1	PHE	E	634	-10.405	63.417	44.287	1.00	11.79	E	C
	ATOM	9478	CD2	PHE	E	634	-10.259	61.033	44.155	1.00	14.83	E	C
	ATOM	9479	CE1	PHE	E	634	-11.536	63.403	43.476	1.00	12.23	E	C
	ATOM	9480	CE2	PHE	E	634	-11.396	61.007	43.338	1.00	17.25	E	C
	ATOM	9481	CZ	PHE	E	634	-12.033	62.200	42.998	1.00	13.44	E	C
40	ATOM	9482	C	PHE	E	634	-7.368	63.289	43.457	1.00	16.64	E	C
	ATOM	9483	O	PHE	E	634	-7.531	62.882	42.305	1.00	17.71	E	O
	ATOM	9484	N	LEU	E	635	-7.342	64.583	43.756	1.00	13.93	E	N
	ATOM	9485	CA	LEU	E	635	-7.496	65.596	42.714	1.00	12.95	E	C
	ATOM	9486	CB	LEU	E	635	-7.551	66.989	43.331	1.00	7.92	E	C
45	ATOM	9487	CG	LEU	E	635	-7.827	68.136	42.363	1.00	10.20	E	C
	ATOM	9488	CD1	LEU	E	635	-9.192	67.944	41.724	1.00	10.27	E	C
	ATOM	9489	CD2	LEU	E	635	-7.764	69.455	43.095	1.00	4.45	E	C
	ATOM	9490	C	LEU	E	635	-6.342	65.532	41.711	1.00	14.51	E	C
	ATOM	9491	O	LEU	E	635	-6.561	65.469	40.497	1.00	17.88	E	O
50	ATOM	9492	N	ASP	E	636	-5.115	65.548	42.218	1.00	11.03	E	N
	ATOM	9493	CA	ASP	E	636	-3.938	65.484	41.360	1.00	11.71	E	C
	ATOM	9494	CB	ASP	E	636	-2.687	65.272	42.215	1.00	10.25	E	C
	ATOM	9495	CG	ASP	E	636	-1.410	65.511	41.448	1.00	13.30	E	C
	ATOM	9496	OD1	ASP	E	636	-1.288	66.567	40.797	1.00	13.97	E	O
55	ATOM	9497	OD2	ASP	E	636	-0.520	64.640	41.500	1.00	15.03	E	O
	ATOM	9498	C	ASP	E	636	-4.069	64.348	40.350	1.00	11.64	E	C
	ATOM	9499	O	ASP	E	636	-3.918	64.549	39.143	1.00	12.18	E	O
	ATOM	9500	N	PHE	E	637	-4.359	63.156	40.853	1.00	9.18	E	N
60	ATOM	9501	CA	PHE	E	637	-4.512	61.982	40.007	1.00	10.90	E	C
	ATOM	9502	CB	PHE	E	637	-4.784	60.746	40.874	1.00	8.34	E	C
	ATOM	9503	CG	PHE	E	637	-3.589	60.277	41.676	1.00	7.86	E	C
	ATOM	9504	CD1	PHE	E	637	-2.377	60.966	41.634	1.00	6.95	E	C
	ATOM	9505	CD2	PHE	E	637	-3.673	59.128	42.459	1.00	6.00	E	C
	ATOM	9506	CE1	PHE	E	637	-1.270	60.510	42.358	1.00	6.65	E	C
65	ATOM	9507	CE2	PHE	E	637	-2.576	58.665	43.182	1.00	3.17	E	C
	ATOM	9508	CZ	PHE	E	637	-1.375	59.353	43.132	1.00	5.91	E	C
	ATOM	9509	C	PHE	E	637	-5.644	62.170	38.990	1.00	12.11	E	C
	ATOM	9510	O	PHE	E	637	-5.497	61.841	37.814	1.00	13.24	E	O

	ATOM	9511	N	LEU E 638	-6.772	62.706	39.436	1.00	11.35	E	N
	ATOM	9512	CA	LEU E 638	-7.898	62.915	38.540	1.00	12.28	E	C
	ATOM	9513	CB	LEU E 638	-9.105	63.443	39.312	1.00	15.28	E	C
	ATOM	9514	CG	LEU E 638	-10.350	63.646	38.442	1.00	17.54	E	C
5	ATOM	9515	CD1	LEU E 638	-11.081	62.331	38.309	1.00	15.32	E	C
	ATOM	9516	CD2	LEU E 638	-11.255	64.701	39.037	1.00	15.75	E	C
	ATOM	9517	C	LEU E 638	-7.574	63.879	37.398	1.00	15.02	E	C
	ATOM	9518	O	LEU E 638	-7.896	63.617	36.240	1.00	15.17	E	O
10	ATOM	9519	N	GLN E 639	-6.948	65.002	37.723	1.00	15.13	E	N
	ATOM	9520	CA	GLN E 639	-6.601	65.990	36.709	1.00	13.63	E	C
	ATOM	9521	CB	GLN E 639	-6.019	67.235	37.377	1.00	14.25	E	C
	ATOM	9522	CG	GLN E 639	-7.024	68.036	38.185	1.00	10.61	E	C
	ATOM	9523	CD	GLN E 639	-6.388	69.220	38.862	1.00	12.80	E	C
	ATOM	9524	OE1	GLN E 639	-5.233	69.160	39.275	1.00	13.14	E	O
15	ATOM	9525	NE2	GLN E 639	-7.134	70.309	38.979	1.00	13.89	E	N
	ATOM	9526	C	GLN E 639	-5.595	65.433	35.707	1.00	14.04	E	C
	ATOM	9527	O	GLN E 639	-5.724	65.633	34.505	1.00	13.50	E	O
	ATOM	9528	N	LYS E 640	-4.587	64.740	36.220	1.00	13.65	E	N
20	ATOM	9529	CA	LYS E 640	-3.543	64.158	35.394	1.00	12.99	E	C
	ATOM	9530	CB	LYS E 640	-2.468	63.530	36.283	1.00	10.63	E	C
	ATOM	9531	CG	LYS E 640	-1.582	64.536	36.967	1.00	4.94	E	C
	ATOM	9532	CD	LYS E 640	-0.477	63.837	37.688	1.00	5.31	E	C
	ATOM	9533	CE	LYS E 640	0.375	64.808	38.476	1.00	3.08	E	C
	ATOM	9534	NZ	LYS E 640	1.165	64.034	39.465	1.00	9.09	E	N
25	ATOM	9535	C	LYS E 640	-4.076	63.113	34.425	1.00	13.29	E	C
	ATOM	9536	O	LYS E 640	-3.458	62.848	33.386	1.00	14.65	E	O
	ATOM	9537	N	GLY E 641	-5.203	62.499	34.776	1.00	13.61	E	N
	ATOM	9538	CA	GLY E 641	-5.798	61.500	33.908	1.00	11.69	E	C
	ATOM	9539	C	GLY E 641	-5.761	60.044	34.343	1.00	13.21	E	C
30	ATOM	9540	O	GLY E 641	-6.145	59.170	33.564	1.00	11.75	E	O
	ATOM	9541	N	LEU E 642	-5.305	59.756	35.561	1.00	13.04	E	N
	ATOM	9542	CA	LEU E 642	-5.262	58.365	36.015	1.00	11.25	E	C
	ATOM	9543	CB	LEU E 642	-4.519	58.242	37.355	1.00	12.32	E	C
	ATOM	9544	CG	LEU E 642	-3.060	58.691	37.603	1.00	13.98	E	C
35	ATOM	9545	CD1	LEU E 642	-2.303	57.528	38.203	1.00	9.57	E	C
	ATOM	9546	CD2	LEU E 642	-2.368	59.180	36.353	1.00	12.86	E	C
	ATOM	9547	C	LEU E 642	-6.699	57.859	36.165	1.00	9.36	E	C
	ATOM	9548	O	LEU E 642	-7.608	58.641	36.420	1.00	9.82	E	O
	ATOM	9549	N	MET E 643	-6.898	56.554	36.006	1.00	9.88	E	N
40	ATOM	9550	CA	MET E 643	-8.227	55.950	36.101	1.00	12.30	E	C
	ATOM	9551	CB	MET E 643	-8.177	54.539	35.513	1.00	16.19	E	C
	ATOM	9552	CG	MET E 643	-9.232	54.259	34.467	1.00	19.09	E	C
	ATOM	9553	SD	MET E 643	-10.755	53.721	35.235	1.00	28.65	E	S
	ATOM	9554	CE	MET E 643	-11.429	52.679	33.915	1.00	21.71	E	C
45	ATOM	9555	C	MET E 643	-8.734	55.902	37.545	1.00	13.98	E	C
	ATOM	9556	O	MET E 643	-8.532	54.908	38.251	1.00	12.81	E	O
	ATOM	9557	N	ILE E 644	-9.428	56.957	37.969	1.00	12.61	E	N
	ATOM	9558	CA	ILE E 644	-9.912	57.060	39.352	1.00	11.48	E	C
	ATOM	9559	CB	ILE E 644	-9.478	58.419	39.965	1.00	11.62	E	C
50	ATOM	9560	CG2	ILE E 644	-9.901	58.501	41.401	1.00	12.64	E	C
	ATOM	9561	CG1	ILE E 644	-7.972	58.620	39.819	1.00	10.43	E	C
	ATOM	9562	CD1	ILE E 644	-7.148	57.540	40.445	1.00	16.13	E	C
	ATOM	9563	C	ILE E 644	-11.415	56.943	39.630	1.00	10.63	E	C
	ATOM	9564	O	ILE E 644	-12.237	57.455	38.878	1.00	12.13	E	O
55	ATOM	9565	N	SER E 645	-11.763	56.270	40.723	1.00	9.91	E	N
	ATOM	9566	CA	SER E 645	-13.156	56.175	41.161	1.00	10.44	E	C
	ATOM	9567	CB	SER E 645	-13.789	54.817	40.796	1.00	8.42	E	C
	ATOM	9568	OG	SER E 645	-13.297	53.737	41.566	1.00	10.19	E	O
	ATOM	9569	C	SER E 645	-13.173	56.419	42.686	1.00	12.13	E	C
60	ATOM	9570	O	SER E 645	-12.145	56.278	43.359	1.00	8.62	E	O
	ATOM	9571	N	LEU E 646	-14.323	56.816	43.219	1.00	11.22	E	N
	ATOM	9572	CA	LEU E 646	-14.438	57.095	44.643	1.00	11.35	E	C
	ATOM	9573	CB	LEU E 646	-15.214	58.401	44.871	1.00	5.75	E	C
	ATOM	9574	CG	LEU E 646	-14.409	59.701	44.752	1.00	8.25	E	C
65	ATOM	9575	CD1	LEU E 646	-15.327	60.877	44.902	1.00	5.90	E	C
	ATOM	9576	CD2	LEU E 646	-13.315	59.761	45.814	1.00	5.85	E	C
	ATOM	9577	C	LEU E 646	-15.135	55.942	45.352	1.00	14.32	E	C
	ATOM	9578	O	LEU E 646	-16.125	55.403	44.852	1.00	14.51	E	O

	ATOM	9579	N	SER	E	647	-14.601	55.557	46.509	1.00	14.90	E	N
	ATOM	9580	CA	SER	E	647	-15.187	54.478	47.288	1.00	15.28	E	C
	ATOM	9581	CB	SER	E	647	-14.401	53.181	47.108	1.00	13.40	E	C
5	ATOM	9582	OG	SER	E	647	-13.025	53.379	47.344	1.00	20.55	E	O
	ATOM	9583	C	SER	E	647	-15.278	54.844	48.760	1.00	14.49	E	C
	ATOM	9584	O	SER	E	647	-14.600	55.748	49.239	1.00	15.50	E	O
	ATOM	9585	N	THR	E	648	-16.118	54.102	49.464	1.00	15.98	E	N
	ATOM	9586	CA	THR	E	648	-16.417	54.309	50.877	1.00	15.80	E	C
10	ATOM	9587	CB	THR	E	648	-17.906	53.932	51.113	1.00	14.90	E	C
	ATOM	9588	OG1	THR	E	648	-18.493	54.840	52.046	1.00	25.25	E	O
	ATOM	9589	CG2	THR	E	648	-18.031	52.521	51.607	1.00	7.44	E	C
	ATOM	9590	C	THR	E	648	-15.524	53.584	51.895	1.00	14.14	E	C
	ATOM	9591	O	THR	E	648	-15.245	54.122	52.970	1.00	12.98	E	O
15	ATOM	9592	N	ASP	E	649	-15.081	52.377	51.545	1.00	14.78	E	N
	ATOM	9593	CA	ASP	E	649	-14.239	51.531	52.402	1.00	12.95	E	C
	ATOM	9594	CB	ASP	E	649	-13.015	52.293	52.913	1.00	12.22	E	C
	ATOM	9595	CG	ASP	E	649	-11.874	51.365	53.290	1.00	12.29	E	C
	ATOM	9596	OD1	ASP	E	649	-12.013	50.137	53.093	1.00	14.60	E	O
20	ATOM	9597	OD2	ASP	E	649	-10.837	51.865	53.779	1.00	13.25	E	O
	ATOM	9598	C	ASP	E	649	-14.981	50.915	53.589	1.00	14.90	E	C
	ATOM	9599	O	ASP	E	649	-15.272	49.723	53.573	1.00	14.03	E	O
	ATOM	9600	N	ASP	E	650	-15.278	51.720	54.613	1.00	17.27	E	N
	ATOM	9601	CA	ASP	E	650	-15.995	51.250	55.805	1.00	16.84	E	C
25	ATOM	9602	CB	ASP	E	650	-15.006	50.906	56.920	1.00	16.99	E	C
	ATOM	9603	CG	ASP	E	650	-14.150	49.691	56.593	1.00	22.35	E	C
	ATOM	9604	OD1	ASP	E	650	-12.943	49.857	56.331	1.00	28.30	E	O
	ATOM	9605	OD2	ASP	E	650	-14.672	48.558	56.603	1.00	26.19	E	O
	ATOM	9606	C	ASP	E	650	-16.968	52.325	56.303	1.00	16.55	E	C
30	ATOM	9607	O	ASP	E	650	-16.662	53.068	57.228	1.00	12.53	E	O
	ATOM	9608	N	PRO	E	651	-18.162	52.408	55.695	1.00	16.64	E	N
	ATOM	9609	CD	PRO	E	651	-18.639	51.549	54.597	1.00	16.85	E	C
	ATOM	9610	CA	PRO	E	651	-19.161	53.402	56.089	1.00	16.60	E	C
	ATOM	9611	CB	PRO	E	651	-20.415	52.993	55.321	1.00	18.08	E	C
35	ATOM	9612	CG	PRO	E	651	-19.925	52.195	54.180	1.00	17.01	E	C
	ATOM	9613	C	PRO	E	651	-19.416	53.472	57.580	1.00	17.19	E	C
	ATOM	9614	O	PRO	E	651	-19.483	54.562	58.148	1.00	16.99	E	O
	ATOM	9615	N	MET	E	652	-19.559	52.308	58.207	1.00	18.19	E	N
	ATOM	9616	CA	MET	E	652	-19.819	52.230	59.643	1.00	18.83	E	C
40	ATOM	9617	CB	MET	E	652	-19.817	50.775	60.099	1.00	20.21	E	C
	ATOM	9618	CG	MET	E	652	-20.157	50.595	61.567	1.00	21.69	E	C
	ATOM	9619	SD	MET	E	652	-20.348	48.877	62.011	1.00	28.37	E	S
	ATOM	9620	CE	MET	E	652	-18.637	48.350	62.115	1.00	21.38	E	C
	ATOM	9621	C	MET	E	652	-18.814	53.012	60.475	1.00	18.01	E	C
45	ATOM	9622	O	MET	E	652	-19.174	53.646	61.462	1.00	18.35	E	O
	ATOM	9623	N	GLN	E	653	-17.555	52.970	60.057	1.00	18.60	E	N
	ATOM	9624	CA	GLN	E	653	-16.469	53.649	60.750	1.00	18.80	E	C
	ATOM	9625	CB	GLN	E	653	-15.158	52.900	60.495	1.00	21.05	E	C
	ATOM	9626	CG	GLN	E	653	-14.655	52.052	61.634	1.00	27.69	E	C
50	ATOM	9627	CD	GLN	E	653	-15.125	50.627	61.516	1.00	35.27	E	C
	ATOM	9628	OE1	GLN	E	653	-16.045	50.205	62.214	1.00	41.52	E	O
	ATOM	9629	NE2	GLN	E	653	-14.501	49.872	60.625	1.00	39.02	E	N
	ATOM	9630	C	GLN	E	653	-16.240	55.121	60.371	1.00	18.83	E	C
	ATOM	9631	O	GLN	E	653	-15.849	55.923	61.220	1.00	15.21	E	O
55	ATOM	9632	N	PHE	E	654	-16.486	55.484	59.113	1.00	18.45	E	N
	ATOM	9633	CA	PHE	E	654	-16.186	56.845	58.676	1.00	17.32	E	C
	ATOM	9634	CB	PHE	E	654	-15.156	56.796	57.538	1.00	17.58	E	C
	ATOM	9635	CG	PHE	E	654	-14.050	55.787	57.740	1.00	16.25	E	C
	ATOM	9636	CD1	PHE	E	654	-13.969	54.663	56.931	1.00	14.09	E	C
60	ATOM	9637	CD2	PHE	E	654	-13.056	55.994	58.701	1.00	14.85	E	C
	ATOM	9638	CE1	PHE	E	654	-12.911	53.752	57.065	1.00	15.71	E	C
	ATOM	9639	CE2	PHE	E	654	-11.995	55.091	58.845	1.00	14.71	E	C
	ATOM	9640	CZ	PHE	E	654	-11.924	53.968	58.022	1.00	15.24	E	C
	ATOM	9641	C	PHE	E	654	-17.284	57.801	58.235	1.00	18.77	E	C
65	ATOM	9642	O	PHE	E	654	-17.013	58.996	58.081	1.00	19.89	E	O
	ATOM	9643	N	HIS	E	655	-18.505	57.320	58.030	1.00	18.24	E	N
	ATOM	9644	CA	HIS	E	655	-19.554	58.211	57.543	1.00	20.62	E	C
	ATOM	9645	CB	HIS	E	655	-20.134	57.616	56.254	1.00	19.03	E	C
	ATOM	9646	CG	HIS	E	655	-19.078	57.257	55.247	1.00	20.16	E	C

	ATOM	9647	CD2	HIS	E	655	-18.337	56.134	55.097	1.00	17.23	E	C
	ATOM	9648	ND1	HIS	E	655	-18.596	58.157	54.320	1.00	19.72	E	N
	ATOM	9649	CE1	HIS	E	655	-17.601	57.606	53.648	1.00	18.31	E	C
5	ATOM	9650	NE2	HIS	E	655	-17.423	56.376	54.102	1.00	15.43	E	N
	ATOM	9651	C	HIS	E	655	-20.655	58.577	58.535	1.00	21.71	E	C
	ATOM	9652	O	HIS	E	655	-20.977	57.798	59.428	1.00	23.93	E	O
	ATOM	9653	N	PHE	E	656	-21.220	59.774	58.362	1.00	23.87	E	N
	ATOM	9654	CA	PHE	E	656	-22.265	60.311	59.235	1.00	25.20	E	C
10	ATOM	9655	CB	PHE	E	656	-21.979	61.781	59.554	1.00	23.28	E	C
	ATOM	9656	CG	PHE	E	656	-20.729	62.006	60.354	1.00	22.14	E	C
	ATOM	9657	CD1	PHE	E	656	-19.569	62.441	59.737	1.00	24.08	E	C
	ATOM	9658	CD2	PHE	E	656	-20.715	61.803	61.729	1.00	27.22	E	C
	ATOM	9659	CE1	PHE	E	656	-18.411	62.673	60.471	1.00	24.60	E	C
15	ATOM	9660	CE2	PHE	E	656	-19.562	62.032	62.475	1.00	25.59	E	C
	ATOM	9661	CZ	PHE	E	656	-18.408	62.469	61.841	1.00	26.42	E	C
	ATOM	9662	C	PHE	E	656	-23.696	60.234	58.715	1.00	27.97	E	C
	ATOM	9663	O	PHE	E	656	-24.641	60.261	59.510	1.00	32.67	E	O
	ATOM	9664	N	THR	E	657	-23.866	60.149	57.398	1.00	29.04	E	N
20	ATOM	9665	CA	THR	E	657	-25.202	60.124	56.792	1.00	28.85	E	C
	ATOM	9666	CB	THR	E	657	-25.247	61.000	55.536	1.00	28.75	E	C
	ATOM	9667	OG1	THR	E	657	-24.835	60.223	54.406	1.00	30.75	E	O
	ATOM	9668	CG2	THR	E	657	-24.311	62.188	55.675	1.00	24.54	E	C
	ATOM	9669	C	THR	E	657	-25.670	58.740	56.388	1.00	32.57	E	C
25	ATOM	9670	O	THR	E	657	-24.958	57.752	56.600	1.00	33.80	E	O
	ATOM	9671	N	LYS	E	658	-26.866	58.680	55.791	1.00	33.62	E	N
	ATOM	9672	CA	LYS	E	658	-27.457	57.415	55.341	1.00	36.01	E	C
	ATOM	9673	CB	LYS	E	658	-28.991	57.475	55.412	1.00	40.29	E	C
	ATOM	9674	CG	LYS	E	658	-29.590	57.264	56.809	1.00	45.84	E	C
30	ATOM	9675	CD	LYS	E	658	-29.919	55.788	57.093	1.00	47.85	E	C
	ATOM	9676	CE	LYS	E	658	-30.151	55.542	58.593	1.00	45.16	E	C
	ATOM	9677	NZ	LYS	E	658	-29.081	54.711	59.206	1.00	40.38	E	N
	ATOM	9678	C	LYS	E	658	-27.048	57.085	53.908	1.00	35.27	E	C
	ATOM	9679	O	LYS	E	658	-27.358	56.001	53.397	1.00	37.35	E	O
35	ATOM	9680	N	GLU	E	659	-26.374	58.027	53.253	1.00	32.65	E	N
	ATOM	9681	CA	GLU	E	659	-25.916	57.822	51.879	1.00	32.55	E	C
	ATOM	9682	CB	GLU	E	659	-26.674	58.758	50.928	1.00	34.95	E	C
	ATOM	9683	CG	GLU	E	659	-28.108	58.301	50.646	1.00	38.98	E	C
	ATOM	9684	CD	GLU	E	659	-28.735	58.990	49.438	1.00	42.99	E	C
40	ATOM	9685	OE1	GLU	E	659	-28.675	58.417	48.322	1.00	42.71	E	O
	ATOM	9686	OE2	GLU	E	659	-29.291	60.102	49.608	1.00	44.77	E	O
	ATOM	9687	C	GLU	E	659	-24.408	58.083	51.821	1.00	29.04	E	C
	ATOM	9688	O	GLU	E	659	-23.947	59.084	51.257	1.00	27.27	E	O
	ATOM	9689	N	PRO	E	660	-23.621	57.179	52.432	1.00	27.20	E	N
45	ATOM	9690	CD	PRO	E	660	-24.115	56.001	53.168	1.00	23.78	E	C
	ATOM	9691	CA	PRO	E	660	-22.158	57.295	52.470	1.00	24.39	E	C
	ATOM	9692	CB	PRO	E	660	-21.691	56.002	53.148	1.00	24.51	E	C
	ATOM	9693	CG	PRO	E	660	-22.908	55.144	53.300	1.00	25.65	E	C
	ATOM	9694	C	PRO	E	660	-21.477	57.525	51.130	1.00	21.45	E	C
50	ATOM	9695	O	PRO	E	660	-20.545	58.331	51.047	1.00	24.07	E	O
	ATOM	9696	N	LEU	E	661	-21.911	56.831	50.082	1.00	19.25	E	N
	ATOM	9697	CA	LEU	E	661	-21.288	57.029	48.766	1.00	16.86	E	C
	ATOM	9698	CB	LEU	E	661	-21.876	56.077	47.722	1.00	13.95	E	C
	ATOM	9699	CG	LEU	E	661	-20.927	55.401	46.707	1.00	15.58	E	C
55	ATOM	9700	CD1	LEU	E	661	-21.554	55.452	45.320	1.00	11.17	E	C
	ATOM	9701	CD2	LEU	E	661	-19.558	56.065	46.683	1.00	8.02	E	C
	ATOM	9702	C	LEU	E	661	-21.498	58.476	48.325	1.00	15.27	E	C
	ATOM	9703	O	LEU	E	661	-20.564	59.131	47.871	1.00	16.34	E	O
	ATOM	9704	N	MET	E	662	-22.725	58.968	48.468	1.00	14.82	E	N
60	ATOM	9705	CA	MET	E	662	-23.056	60.343	48.110	1.00	15.90	E	C
	ATOM	9706	CB	MET	E	662	-24.554	60.602	48.279	1.00	17.07	E	C
	ATOM	9707	CG	MET	E	662	-25.432	59.758	47.360	1.00	25.57	E	C
	ATOM	9708	SD	MET	E	662	-25.021	59.947	45.581	1.00	33.09	E	S
	ATOM	9709	CE	MET	E	662	-25.193	61.772	45.400	1.00	28.64	E	C
65	ATOM	9710	C	MET	E	662	-22.275	61.289	49.008	1.00	17.19	E	C
	ATOM	9711	O	MET	E	662	-21.925	62.400	48.599	1.00	18.25	E	O
	ATOM	9712	N	GLU	E	663	-22.004	60.847	50.233	1.00	13.97	E	N
	ATOM	9713	CA	GLU	E	663	-21.246	61.653	51.184	1.00	13.15	E	C
	ATOM	9714	CB	GLU	E	663	-21.280	60.999	52.565	1.00	16.87	E	C

	ATOM	9715	CG	GLU	E	663	-21.017	61.947	53.721	1.00	19.20	E	C
	ATOM	9716	CD	GLU	E	663	-20.997	61.234	55.060	1.00	19.47	E	C
	ATOM	9717	OE1	GLU	E	663	-21.854	60.344	55.260	1.00	16.21	E	O
	ATOM	9718	OE2	GLU	E	663	-20.129	61.563	55.899	1.00	15.08	E	O
5	ATOM	9719	C	GLU	E	663	-19.798	61.806	50.707	1.00	12.36	E	C
	ATOM	9720	O	GLU	E	663	-19.241	62.902	50.767	1.00	9.15	E	O
	ATOM	9721	N	GLU	E	664	-19.194	60.712	50.233	1.00	9.68	E	N
	ATOM	9722	CA	GLU	E	664	-17.816	60.759	49.745	1.00	11.87	E	C
	ATOM	9723	CB	GLU	E	664	-17.309	59.358	49.394	1.00	12.99	E	C
10	ATOM	9724	CG	GLU	E	664	-16.907	58.526	50.601	1.00	21.43	E	C
	ATOM	9725	CD	GLU	E	664	-15.418	58.554	50.890	1.00	17.81	E	C
	ATOM	9726	OE1	GLU	E	664	-14.687	59.343	50.250	1.00	20.63	E	O
	ATOM	9727	OE2	GLU	E	664	-14.980	57.783	51.769	1.00	24.13	E	O
	ATOM	9728	C	GLU	E	664	-17.699	61.654	48.517	1.00	10.43	E	C
15	ATOM	9729	O	GLU	E	664	-16.740	62.414	48.382	1.00	12.29	E	O
	ATOM	9730	N	TYR	E	665	-18.682	61.560	47.629	1.00	10.29	E	N
	ATOM	9731	CA	TYR	E	665	-18.701	62.363	46.416	1.00	11.18	E	C
	ATOM	9732	CB	TYR	E	665	-19.834	61.905	45.488	1.00	10.35	E	C
	ATOM	9733	CG	TYR	E	665	-19.443	60.820	44.501	1.00	11.53	E	C
20	ATOM	9734	CD1	TYR	E	665	-19.450	59.477	44.870	1.00	10.80	E	C
	ATOM	9735	CE1	TYR	E	665	-19.117	58.474	43.959	1.00	9.15	E	C
	ATOM	9736	CD2	TYR	E	665	-19.087	61.136	43.185	1.00	16.01	E	C
	ATOM	9737	CE2	TYR	E	665	-18.749	60.134	42.257	1.00	11.91	E	C
	ATOM	9738	CZ	TYR	E	665	-18.770	58.811	42.657	1.00	12.87	E	C
25	ATOM	9739	OH	TYR	E	665	-18.455	57.825	41.754	1.00	15.88	E	O
	ATOM	9740	C	TYR	E	665	-18.881	63.832	46.750	1.00	9.13	E	C
	ATOM	9741	O	TYR	E	665	-18.179	64.683	46.212	1.00	14.60	E	O
	ATOM	9742	N	ALA	E	666	-19.820	64.132	47.641	1.00	8.92	E	N
	ATOM	9743	CA	ALA	E	666	-20.091	65.518	48.046	1.00	8.83	E	C
30	ATOM	9744	CB	ALA	E	666	-21.257	65.559	49.011	1.00	6.45	E	C
	ATOM	9745	C	ALA	E	666	-18.902	66.237	48.659	1.00	7.40	E	C
	ATOM	9746	O	ALA	E	666	-18.568	67.339	48.250	1.00	8.64	E	O
	ATOM	9747	N	ILE	E	667	-18.262	65.624	49.644	1.00	10.47	E	N
	ATOM	9748	CA	ILE	E	667	-17.125	66.273	50.283	1.00	14.24	E	C
35	ATOM	9749	CB	ILE	E	667	-16.625	65.482	51.524	1.00	14.70	E	C
	ATOM	9750	CG2	ILE	E	667	-16.277	64.054	51.131	1.00	18.37	E	C
	ATOM	9751	CG1	ILE	E	667	-15.406	66.188	52.125	1.00	17.24	E	C
	ATOM	9752	CD1	ILE	E	667	-14.814	65.488	53.323	1.00	21.32	E	C
	ATOM	9753	C	ILE	E	667	-15.985	66.438	49.287	1.00	14.50	E	C
40	ATOM	9754	O	ILE	E	667	-15.310	67.469	49.267	1.00	13.96	E	O
	ATOM	9755	N	ALA	E	668	-15.766	65.425	48.456	1.00	12.72	E	N
	ATOM	9756	CA	ALA	E	668	-14.702	65.518	47.467	1.00	11.08	E	C
	ATOM	9757	CB	ALA	E	668	-14.623	64.230	46.648	1.00	10.14	E	C
	ATOM	9758	C	ALA	E	668	-14.977	66.712	46.557	1.00	7.61	E	C
45	ATOM	9759	O	ALA	E	668	-14.078	67.484	46.260	1.00	10.15	E	O
	ATOM	9760	N	ALA	E	669	-16.224	66.868	46.131	1.00	5.01	E	N
	ATOM	9761	CA	ALA	E	669	-16.602	67.982	45.257	1.00	10.05	E	C
	ATOM	9762	CB	ALA	E	669	-18.047	67.814	44.773	1.00	2.28	E	C
	ATOM	9763	C	ALA	E	669	-16.447	69.328	45.955	1.00	10.20	E	C
50	ATOM	9764	O	ALA	E	669	-15.981	70.292	45.355	1.00	10.19	E	O
	ATOM	9765	N	GLN	E	670	-16.840	69.385	47.225	1.00	13.63	E	N
	ATOM	9766	CA	GLN	E	670	-16.746	70.610	48.010	1.00	15.09	E	C
	ATOM	9767	CB	GLN	E	670	-17.422	70.431	49.377	1.00	20.31	E	C
	ATOM	9768	CG	GLN	E	670	-18.841	69.869	49.333	1.00	21.97	E	C
55	ATOM	9769	CD	GLN	E	670	-19.895	70.945	49.162	1.00	25.98	E	C
	ATOM	9770	OE1	GLN	E	670	-19.600	72.049	48.700	1.00	27.58	E	O
	ATOM	9771	NE2	GLN	E	670	-21.135	70.629	49.533	1.00	24.40	E	N
	ATOM	9772	C	GLN	E	670	-15.310	71.091	48.220	1.00	15.21	E	C
	ATOM	9773	O	GLN	E	670	-14.978	72.216	47.848	1.00	17.63	E	O
60	ATOM	9774	N	VAL	E	671	-14.450	70.260	48.803	1.00	14.12	E	N
	ATOM	9775	CA	VAL	E	671	-13.078	70.707	49.033	1.00	15.10	E	C
	ATOM	9776	CB	VAL	E	671	-12.406	69.962	50.251	1.00	12.13	E	C
	ATOM	9777	CG1	VAL	E	671	-13.413	69.105	50.967	1.00	9.55	E	C
	ATOM	9778	CG2	VAL	E	671	-11.221	69.144	49.798	1.00	9.55	E	C
65	ATOM	9779	C	VAL	E	671	-12.158	70.659	47.807	1.00	14.16	E	C
	ATOM	9780	O	VAL	E	671	-11.248	71.476	47.691	1.00	16.69	E	O
	ATOM	9781	N	PHE	E	672	-12.379	69.731	46.887	1.00	13.12	E	N
	ATOM	9782	CA	PHE	E	672	-11.522	69.670	45.707	1.00	14.92	E	C

	ATOM	9783	CB	PHE	E	672	-11.323	68.221	45.278	1.00	12.48	E	C
	ATOM	9784	CG	PHE	E	672	-10.444	67.445	46.217	1.00	18.14	E	C
	ATOM	9785	CD1	PHE	E	672	-9.130	67.852	46.455	1.00	17.62	E	C
5	ATOM	9786	CD2	PHE	E	672	-10.934	66.342	46.900	1.00	14.94	E	C
	ATOM	9787	CE1	PHE	E	672	-8.324	67.169	47.364	1.00	17.50	E	C
	ATOM	9788	CE2	PHE	E	672	-10.135	65.655	47.810	1.00	14.80	E	C
	ATOM	9789	CZ	PHE	E	672	-8.830	66.069	48.043	1.00	17.53	E	C
	ATOM	9790	C	PHE	E	672	-12.056	70.507	44.551	1.00	15.06	E	C
10	ATOM	9791	O	PHE	E	672	-11.446	70.573	43.496	1.00	15.95	E	O
	ATOM	9792	N	LYS	E	673	-13.197	71.152	44.780	1.00	18.40	E	N
	ATOM	9793	CA	LYS	E	673	-13.851	72.020	43.806	1.00	17.62	E	C
	ATOM	9794	CB	LYS	E	673	-13.051	73.316	43.642	1.00	17.15	E	C
	ATOM	9795	CG	LYS	E	673	-13.621	74.469	44.458	1.00	19.79	E	C
	ATOM	9796	CD	LYS	E	673	-12.547	75.309	45.146	1.00	30.20	E	C
15	ATOM	9797	CE	LYS	E	673	-11.234	74.535	45.365	1.00	38.53	E	C
	ATOM	9798	NZ	LYS	E	673	-10.152	75.339	46.041	1.00	39.11	E	N
	ATOM	9799	C	LYS	E	673	-14.073	71.360	42.455	1.00	18.50	E	C
	ATOM	9800	O	LYS	E	673	-13.728	71.913	41.410	1.00	21.08	E	O
20	ATOM	9801	N	LEU	E	674	-14.673	70.178	42.491	1.00	17.44	E	N
	ATOM	9802	CA	LEU	E	674	-14.971	69.402	41.292	1.00	16.77	E	C
	ATOM	9803	CB	LEU	E	674	-15.234	67.937	41.669	1.00	14.87	E	C
	ATOM	9804	CG	LEU	E	674	-14.091	66.925	41.737	1.00	10.38	E	C
	ATOM	9805	CD1	LEU	E	674	-12.760	67.616	41.878	1.00	11.23	E	C
	ATOM	9806	CD2	LEU	E	674	-14.339	66.007	42.900	1.00	9.75	E	C
25	ATOM	9807	C	LEU	E	674	-16.200	69.942	40.565	1.00	15.37	E	C
	ATOM	9808	O	LEU	E	674	-17.162	70.357	41.193	1.00	12.74	E	O
	ATOM	9809	N	SER	E	675	-16.159	69.923	39.237	1.00	16.67	E	N
	ATOM	9810	CA	SER	E	675	-17.283	70.378	38.420	1.00	15.27	E	C
	ATOM	9811	CB	SER	E	675	-16.802	70.775	37.026	1.00	14.65	E	C
30	ATOM	9812	OG	SER	E	675	-16.430	69.620	36.290	1.00	16.84	E	O
	ATOM	9813	C	SER	E	675	-18.215	69.185	38.297	1.00	15.36	E	C
	ATOM	9814	O	SER	E	675	-17.824	68.055	38.608	1.00	16.16	E	O
	ATOM	9815	N	THR	E	676	-19.441	69.411	37.842	1.00	16.38	E	N
	ATOM	9816	CA	THR	E	676	-20.364	68.297	37.703	1.00	15.66	E	C
35	ATOM	9817	CB	THR	E	676	-21.822	68.778	37.479	1.00	16.79	E	C
	ATOM	9818	OG1	THR	E	676	-22.385	68.101	36.350	1.00	26.81	E	O
	ATOM	9819	CG2	THR	E	676	-21.868	70.268	37.254	1.00	21.71	E	C
	ATOM	9820	C	THR	E	676	-19.896	67.374	36.573	1.00	14.98	E	C
	ATOM	9821	O	THR	E	676	-20.273	66.207	36.521	1.00	15.94	E	O
40	ATOM	9822	N	CYS	E	677	-19.046	67.877	35.682	1.00	14.10	E	N
	ATOM	9823	CA	CYS	E	677	-18.531	67.024	34.616	1.00	12.43	E	C
	ATOM	9824	CB	CYS	E	677	-17.904	67.848	33.487	1.00	14.25	E	C
	ATOM	9825	SG	CYS	E	677	-17.349	66.841	32.063	1.00	15.32	E	S
	ATOM	9826	C	CYS	E	677	-17.469	66.130	35.240	1.00	12.75	E	C
45	ATOM	9827	O	CYS	E	677	-17.359	64.956	34.893	1.00	14.24	E	O
	ATOM	9828	N	ASP	E	678	-16.682	66.701	36.153	1.00	13.17	E	N
	ATOM	9829	CA	ASP	E	678	-15.633	65.965	36.862	1.00	12.82	E	C
	ATOM	9830	CB	ASP	E	678	-14.896	66.883	37.837	1.00	14.28	E	C
	ATOM	9831	CG	ASP	E	678	-14.066	67.933	37.144	1.00	14.91	E	C
50	ATOM	9832	OD1	ASP	E	678	-13.596	67.678	36.015	1.00	19.66	E	O
	ATOM	9833	OD2	ASP	E	678	-13.878	69.018	37.732	1.00	14.14	E	O
	ATOM	9834	C	ASP	E	678	-16.257	64.834	37.668	1.00	13.39	E	C
	ATOM	9835	O	ASP	E	678	-15.736	63.722	37.703	1.00	13.56	E	O
	ATOM	9836	N	MET	E	679	-17.378	65.134	38.316	1.00	12.07	E	N
55	ATOM	9837	CA	MET	E	679	-18.079	64.159	39.140	1.00	13.16	E	C
	ATOM	9838	CB	MET	E	679	-19.225	64.834	39.894	1.00	14.20	E	C
	ATOM	9839	CG	MET	E	679	-18.791	65.866	40.903	1.00	18.44	E	C
	ATOM	9840	SD	MET	E	679	-20.144	66.305	42.004	1.00	27.83	E	S
	ATOM	9841	CE	MET	E	679	-20.764	67.760	41.226	1.00	26.90	E	C
60	ATOM	9842	C	MET	E	679	-18.647	63.021	38.317	1.00	12.95	E	C
	ATOM	9843	O	MET	E	679	-18.576	61.854	38.705	1.00	13.09	E	O
	ATOM	9844	N	CYS	E	680	-19.235	63.364	37.181	1.00	13.38	E	N
	ATOM	9845	CA	CYS	E	680	-19.824	62.352	36.324	1.00	14.76	E	C
	ATOM	9846	CB	CYS	E	680	-20.705	63.009	35.270	1.00	16.87	E	C
65	ATOM	9847	SG	CYS	E	680	-22.207	63.740	35.969	1.00	21.04	E	S
	ATOM	9848	C	CYS	E	680	-18.751	61.500	35.675	1.00	13.98	E	C
	ATOM	9849	O	CYS	E	680	-19.002	60.347	35.330	1.00	17.83	E	O
	ATOM	9850	N	GLU	E	681	-17.554	62.051	35.507	1.00	11.94	E	N

	ATOM	9851	CA	GLU	E	681	-16.475	61.269	34.913	1.00	12.51	E	C
	ATOM	9852	CB	GLU	E	681	-15.278	62.155	34.521	1.00	9.85	E	C
	ATOM	9853	CG	GLU	E	681	-14.139	61.361	33.899	1.00	14.97	E	C
	ATOM	9854	CD	GLU	E	681	-12.965	62.216	33.411	1.00	18.17	E	C
5	ATOM	9855	OE1	GLU	E	681	-12.746	63.324	33.946	1.00	17.02	E	O
	ATOM	9856	OE2	GLU	E	681	-12.253	61.762	32.485	1.00	20.53	E	O
	ATOM	9857	C	GLU	E	681	-16.040	60.224	35.931	1.00	11.86	E	C
	ATOM	9858	O	GLU	E	681	-15.723	59.095	35.571	1.00	16.44	E	O
	ATOM	9859	N	VAL	E	682	-16.025	60.590	37.209	1.00	10.08	E	N
10	ATOM	9860	CA	VAL	E	682	-15.629	59.635	38.236	1.00	9.25	E	C
	ATOM	9861	CB	VAL	E	682	-15.463	60.310	39.619	1.00	7.09	E	C
	ATOM	9862	CG1	VAL	E	682	-15.363	59.240	40.712	1.00	3.75	E	C
	ATOM	9863	CG2	VAL	E	682	-14.217	61.186	39.623	1.00	2.39	E	C
	ATOM	9864	C	VAL	E	682	-16.683	58.538	38.327	1.00	8.90	E	C
15	ATOM	9865	O	VAL	E	682	-16.360	57.365	38.506	1.00	10.08	E	O
	ATOM	9866	N	ALA	E	683	-17.948	58.917	38.195	1.00	8.23	E	N
	ATOM	9867	CA	ALA	E	683	-19.036	57.941	38.249	1.00	5.16	E	C
	ATOM	9868	CB	ALA	E	683	-20.361	58.638	38.126	1.00	2.18	E	C
	ATOM	9869	C	ALA	E	683	-18.883	56.930	37.125	1.00	7.35	E	C
20	ATOM	9870	O	ALA	E	683	-19.018	55.734	37.342	1.00	10.53	E	O
	ATOM	9871	N	ARG	E	684	-18.598	57.412	35.919	1.00	10.40	E	N
	ATOM	9872	CA	ARG	E	684	-18.425	56.530	34.770	1.00	11.97	E	C
	ATOM	9873	CB	ARG	E	684	-18.135	57.349	33.511	1.00	13.15	E	C
	ATOM	9874	CG	ARG	E	684	-17.940	56.513	32.255	1.00	13.70	E	C
25	ATOM	9875	CD	ARG	E	684	-18.066	57.363	30.986	1.00	15.42	E	C
	ATOM	9876	NE	ARG	E	684	-18.064	56.534	29.787	1.00	12.84	E	N
	ATOM	9877	CZ	ARG	E	684	-16.963	56.084	29.200	1.00	13.97	E	C
	ATOM	9878	NH1	ARG	E	684	-15.771	56.388	29.705	1.00	13.93	E	N
	ATOM	9879	NH2	ARG	E	684	-17.050	55.305	28.128	1.00	13.49	E	N
30	ATOM	9880	C	ARG	E	684	-17.277	55.563	35.036	1.00	12.49	E	C
	ATOM	9881	O	ARG	E	684	-17.406	54.356	34.826	1.00	16.05	E	O
	ATOM	9882	N	ASN	E	685	-16.151	56.096	35.496	1.00	12.49	E	N
	ATOM	9883	CA	ASN	E	685	-14.992	55.266	35.814	1.00	11.60	E	C
	ATOM	9884	CB	ASN	E	685	-13.895	56.107	36.472	1.00	12.68	E	C
35	ATOM	9885	CG	ASN	E	685	-13.149	56.972	35.477	1.00	15.49	E	C
	ATOM	9886	OD1	ASN	E	685	-13.485	57.004	34.291	1.00	18.67	E	O
	ATOM	9887	ND2	ASN	E	685	-12.130	57.677	35.952	1.00	12.50	E	N
	ATOM	9888	C	ASN	E	685	-15.410	54.163	36.779	1.00	10.82	E	C
	ATOM	9889	O	ASN	E	685	-15.081	52.995	36.587	1.00	9.17	E	O
40	ATOM	9890	N	SER	E	686	-16.139	54.541	37.822	1.00	9.91	E	N
	ATOM	9891	CA	SER	E	686	-16.589	53.567	38.806	1.00	9.27	E	C
	ATOM	9892	CB	SER	E	686	-17.436	54.260	39.888	1.00	5.73	E	C
	ATOM	9893	OG	SER	E	686	-18.814	54.277	39.570	1.00	3.98	E	O
	ATOM	9894	C	SER	E	686	-17.352	52.405	38.160	1.00	10.18	E	C
45	ATOM	9895	O	SER	E	686	-17.145	51.250	38.534	1.00	11.55	E	O
	ATOM	9896	N	VAL	E	687	-18.211	52.691	37.179	1.00	12.19	E	N
	ATOM	9897	CA	VAL	E	687	-18.962	51.622	36.516	1.00	10.91	E	C
	ATOM	9898	CB	VAL	E	687	-20.125	52.156	35.647	1.00	10.45	E	C
	ATOM	9899	CG1	VAL	E	687	-20.941	50.984	35.111	1.00	7.78	E	C
50	ATOM	9900	CG2	VAL	E	687	-21.019	53.073	36.456	1.00	8.09	E	C
	ATOM	9901	C	VAL	E	687	-18.056	50.783	35.624	1.00	12.08	E	C
	ATOM	9902	O	VAL	E	687	-18.167	49.556	35.577	1.00	14.91	E	O
	ATOM	9903	N	LEU	E	688	-17.154	51.438	34.911	1.00	12.79	E	N
	ATOM	9904	CA	LEU	E	688	-16.241	50.717	34.035	1.00	13.11	E	C
55	ATOM	9905	CB	LEU	E	688	-15.346	51.706	33.285	1.00	12.56	E	C
	ATOM	9906	CG	LEU	E	688	-16.002	52.556	32.193	1.00	14.24	E	C
	ATOM	9907	CD1	LEU	E	688	-15.044	53.631	31.709	1.00	7.93	E	C
	ATOM	9908	CD2	LEU	E	688	-16.405	51.658	31.048	1.00	12.28	E	C
	ATOM	9909	C	LEU	E	688	-15.363	49.747	34.828	1.00	14.93	E	C
60	ATOM	9910	O	LEU	E	688	-15.039	48.650	34.363	1.00	18.96	E	O
	ATOM	9911	N	GLN	E	689	-14.984	50.155	36.033	1.00	15.06	E	N
	ATOM	9912	CA	GLN	E	689	-14.118	49.351	36.884	1.00	12.45	E	C
	ATOM	9913	CB	GLN	E	689	-13.436	50.266	37.904	1.00	9.57	E	C
	ATOM	9914	CG	GLN	E	689	-12.842	49.543	39.090	1.00	6.15	E	C
65	ATOM	9915	CD	GLN	E	689	-12.019	50.450	39.976	1.00	6.89	E	C
	ATOM	9916	OE1	GLN	E	689	-11.116	49.998	40.661	1.00	6.93	E	O
	ATOM	9917	NE2	GLN	E	689	-12.331	51.735	39.965	1.00	7.87	E	N
	ATOM	9918	C	GLN	E	689	-14.754	48.159	37.623	1.00	14.55	E	C

	ATOM	9919	O	GLN	E	689	-14.113	47.118	37.779	1.00	9.91	E	O
	ATOM	9920	N	CYS	E	690	-16.005	48.297	38.063	1.00	14.10	E	N
	ATOM	9921	CA	CYS	E	690	-16.650	47.238	38.836	1.00	15.95	E	C
	ATOM	9922	CB	CYS	E	690	-17.959	47.743	39.418	1.00	16.51	E	C
5	ATOM	9923	SG	CYS	E	690	-19.180	48.002	38.178	1.00	20.63	E	S
	ATOM	9924	C	CYS	E	690	-16.892	45.909	38.143	1.00	15.74	E	C
	ATOM	9925	O	CYS	E	690	-16.526	45.728	36.997	1.00	19.37	E	O
	ATOM	9926	N	GLY	E	691	-17.515	44.979	38.868	1.00	17.44	E	N
	ATOM	9927	CA	GLY	E	691	-17.789	43.654	38.338	1.00	14.56	E	C
10	ATOM	9928	C	GLY	E	691	-19.209	43.411	37.847	1.00	17.98	E	C
	ATOM	9929	O	GLY	E	691	-19.590	42.260	37.589	1.00	19.41	E	O
	ATOM	9930	N	ILE	E	692	-19.997	44.477	37.716	1.00	14.89	E	N
	ATOM	9931	CA	ILE	E	692	-21.361	44.350	37.227	1.00	14.50	E	C
	ATOM	9932	CB	ILE	E	692	-22.009	45.734	37.073	1.00	15.26	E	C
15	ATOM	9933	CG2	ILE	E	692	-23.368	45.616	36.376	1.00	15.94	E	C
	ATOM	9934	CG1	ILE	E	692	-22.162	46.375	38.454	1.00	13.01	E	C
	ATOM	9935	CD1	ILE	E	692	-23.079	47.597	38.486	1.00	13.97	E	C
	ATOM	9936	C	ILE	E	692	-21.329	43.631	35.874	1.00	15.30	E	C
	ATOM	9937	O	ILE	E	692	-20.312	43.636	35.188	1.00	14.78	E	O
20	ATOM	9938	N	SER	E	693	-22.438	43.007	35.491	1.00	16.82	E	N
	ATOM	9939	CA	SER	E	693	-22.492	42.276	34.229	1.00	16.91	E	C
	ATOM	9940	CB	SER	E	693	-23.742	41.390	34.186	1.00	16.57	E	C
	ATOM	9941	OG	SER	E	693	-24.925	42.167	34.056	1.00	19.12	E	O
	ATOM	9942	C	SER	E	693	-22.464	43.188	33.009	1.00	19.22	E	C
25	ATOM	9943	O	SER	E	693	-22.811	44.368	33.093	1.00	20.15	E	O
	ATOM	9944	N	HIS	E	694	-22.048	42.623	31.878	1.00	21.51	E	N
	ATOM	9945	CA	HIS	E	694	-21.964	43.347	30.615	1.00	24.03	E	C
	ATOM	9946	CB	HIS	E	694	-21.448	42.423	29.513	1.00	24.66	E	C
	ATOM	9947	CG	HIS	E	694	-21.419	43.060	28.159	1.00	27.58	E	C
30	ATOM	9948	CD2	HIS	E	694	-20.526	43.903	27.589	1.00	26.12	E	C
	ATOM	9949	ND1	HIS	E	694	-22.415	42.869	27.222	1.00	29.26	E	N
	ATOM	9950	CE1	HIS	E	694	-22.134	43.568	26.137	1.00	27.31	E	C
	ATOM	9951	NE2	HIS	E	694	-20.995	44.203	26.334	1.00	25.80	E	N
	ATOM	9952	C	HIS	E	694	-23.303	43.926	30.187	1.00	24.47	E	C
35	ATOM	9953	O	HIS	E	694	-23.398	45.103	29.854	1.00	24.97	E	O
	ATOM	9954	N	GLU	E	695	-24.337	43.095	30.189	1.00	27.06	E	N
	ATOM	9955	CA	GLU	E	695	-25.660	43.550	29.795	1.00	30.61	E	C
	ATOM	9956	CB	GLU	E	695	-26.693	42.434	29.992	1.00	37.50	E	C
	ATOM	9957	CG	GLU	E	695	-28.099	42.785	29.498	1.00	47.73	E	C
40	ATOM	9958	CD	GLU	E	695	-29.199	42.335	30.460	1.00	55.09	E	C
	ATOM	9959	OE1	GLU	E	695	-29.717	41.206	30.289	1.00	58.35	E	O
	ATOM	9960	OE2	GLU	E	695	-29.546	43.109	31.386	1.00	59.08	E	O
	ATOM	9961	C	GLU	E	695	-26.065	44.778	30.596	1.00	28.95	E	C
	ATOM	9962	O	GLU	E	695	-26.517	45.767	30.031	1.00	31.39	E	O
45	ATOM	9963	N	GLU	E	696	-25.893	44.724	31.911	1.00	28.02	E	N
	ATOM	9964	CA	GLU	E	696	-26.259	45.853	32.760	1.00	26.25	E	C
	ATOM	9965	CB	GLU	E	696	-26.179	45.452	34.224	1.00	29.73	E	C
	ATOM	9966	CG	GLU	E	696	-27.525	45.153	34.834	1.00	37.30	E	C
	ATOM	9967	CD	GLU	E	696	-27.401	44.182	35.983	1.00	44.01	E	C
50	ATOM	9968	OE1	GLU	E	696	-27.796	44.546	37.125	1.00	46.29	E	O
	ATOM	9969	OE2	GLU	E	696	-26.898	43.058	35.739	1.00	45.16	E	O
	ATOM	9970	C	GLU	E	696	-25.387	47.073	32.530	1.00	23.17	E	C
	ATOM	9971	O	GLU	E	696	-25.887	48.195	32.478	1.00	18.23	E	O
	ATOM	9972	N	LYS	E	697	-24.080	46.856	32.408	1.00	22.25	E	N
55	ATOM	9973	CA	LYS	E	697	-23.157	47.964	32.170	1.00	22.56	E	C
	ATOM	9974	CB	LYS	E	697	-21.722	47.449	32.023	1.00	18.55	E	C
	ATOM	9975	CG	LYS	E	697	-20.961	47.343	33.339	1.00	17.35	E	C
	ATOM	9976	CD	LYS	E	697	-19.468	47.152	33.106	1.00	15.25	E	C
	ATOM	9977	CE	LYS	E	697	-18.747	46.786	34.396	1.00	16.98	E	C
60	ATOM	9978	NZ	LYS	E	697	-17.272	46.690	34.204	1.00	18.33	E	N
	ATOM	9979	C	LYS	E	697	-23.578	48.703	30.902	1.00	24.08	E	C
	ATOM	9980	O	LYS	E	697	-23.655	49.933	30.884	1.00	27.81	E	O
	ATOM	9981	N	ALA	E	698	-23.868	47.950	29.846	1.00	22.26	E	N
	ATOM	9982	CA	ALA	E	698	-24.289	48.537	28.578	1.00	23.46	E	C
65	ATOM	9983	CB	ALA	E	698	-24.583	47.434	27.567	1.00	23.18	E	C
	ATOM	9984	C	ALA	E	698	-25.522	49.409	28.760	1.00	22.41	E	C
	ATOM	9985	O	ALA	E	698	-25.703	50.401	28.057	1.00	22.73	E	O
	ATOM	9986	N	LYS	E	699	-26.369	49.030	29.711	1.00	24.61	E	N

	ATOM	9987	CA	LYS	E	699	-27.600	49.761	29.995	1.00	24.26	E	C
	ATOM	9988	CB	LYS	E	699	-28.575	48.847	30.747	1.00	25.75	E	C
	ATOM	9989	CG	LYS	E	699	-29.654	49.571	31.541	1.00	31.55	E	C
5	ATOM	9990	CD	LYS	E	699	-30.523	48.584	32.327	1.00	36.24	E	C
	ATOM	9991	CE	LYS	E	699	-31.268	49.267	33.469	1.00	36.67	E	C
	ATOM	9992	NZ	LYS	E	699	-32.466	50.036	33.000	1.00	40.21	E	N
	ATOM	9993	C	LYS	E	699	-27.350	51.045	30.792	1.00	23.39	E	C
	ATOM	9994	O	LYS	E	699	-28.150	51.984	30.726	1.00	22.58	E	O
10	ATOM	9995	N	PHE	E	700	-26.246	51.093	31.536	1.00	20.77	E	N
	ATOM	9996	CA	PHE	E	700	-25.927	52.279	32.328	1.00	19.17	E	C
	ATOM	9997	CB	PHE	E	700	-25.200	51.912	33.633	1.00	18.28	E	C
	ATOM	9998	CG	PHE	E	700	-25.953	50.967	34.522	1.00	19.00	E	C
	ATOM	9999	CD1	PHE	E	700	-27.343	50.953	34.547	1.00	18.25	E	C
15	ATOM	10000	CD2	PHE	E	700	-25.264	50.072	35.331	1.00	17.96	E	C
	ATOM	10001	CE1	PHE	E	700	-28.029	50.061	35.358	1.00	12.08	E	C
	ATOM	10002	CE2	PHE	E	700	-25.948	49.178	36.145	1.00	16.33	E	C
	ATOM	10003	CZ	PHE	E	700	-27.333	49.175	36.155	1.00	12.75	E	C
	ATOM	10004	C	PHE	E	700	-25.025	53.231	31.565	1.00	18.88	E	C
20	ATOM	10005	O	PHE	E	700	-25.169	54.449	31.669	1.00	17.27	E	O
	ATOM	10006	N	LEU	E	701	-24.036	52.666	30.812	1.00	20.39	E	N
	ATOM	10007	CA	LEU	E	701	-23.108	53.458	30.061	1.00	22.66	E	C
	ATOM	10008	CB	LEU	E	701	-21.708	52.872	30.275	1.00	20.26	E	C
	ATOM	10009	CG	LEU	E	701	-21.191	52.668	31.702	1.00	18.21	E	C
25	ATOM	10010	CD1	LEU	E	701	-19.801	52.058	31.651	1.00	12.75	E	C
	ATOM	10011	CD2	LEU	E	701	-21.146	53.997	32.431	1.00	18.01	E	C
	ATOM	10012	C	LEU	E	701	-23.331	53.606	28.555	1.00	22.77	E	C
	ATOM	10013	O	LEU	E	701	-22.736	54.483	27.930	1.00	25.38	E	O
	ATOM	10014	N	GLY	E	702	-24.175	52.754	27.981	1.00	25.01	E	N
30	ATOM	10015	CA	GLY	E	702	-24.422	52.784	26.546	1.00	26.17	E	C
	ATOM	10016	C	GLY	E	702	-23.911	51.472	25.966	1.00	27.31	E	C
	ATOM	10017	O	GLY	E	702	-23.102	50.803	26.600	1.00	29.76	E	O
	ATOM	10018	N	ASN	E	703	-24.348	51.099	24.767	1.00	27.32	E	N
	ATOM	10019	CA	ASN	E	703	-23.923	49.828	24.172	1.00	26.37	E	C
35	ATOM	10020	CB	ASN	E	703	-24.845	49.475	23.008	1.00	28.40	E	C
	ATOM	10021	CG	ASN	E	703	-26.235	49.106	23.465	1.00	31.97	E	C
	ATOM	10022	OD1	ASN	E	703	-26.439	48.073	24.103	1.00	32.69	E	O
	ATOM	10023	ND2	ASN	E	703	-27.205	49.954	23.145	1.00	34.50	E	N
	ATOM	10024	C	ASN	E	703	-22.470	49.701	23.708	1.00	25.16	E	C
40	ATOM	10025	O	ASN	E	703	-21.983	48.590	23.520	1.00	21.73	E	O
	ATOM	10026	N	ASN	E	704	-21.777	50.823	23.539	1.00	23.79	E	N
	ATOM	10027	CA	ASN	E	704	-20.393	50.797	23.073	1.00	23.20	E	C
	ATOM	10028	CB	ASN	E	704	-20.215	51.810	21.946	1.00	30.52	E	C
	ATOM	10029	CG	ASN	E	704	-20.063	51.159	20.597	1.00	34.40	E	C
45	ATOM	10030	OD1	ASN	E	704	-18.941	50.958	20.115	1.00	34.39	E	O
	ATOM	10031	ND2	ASN	E	704	-21.192	50.827	19.968	1.00	35.47	E	N
	ATOM	10032	C	ASN	E	704	-19.354	51.093	24.143	1.00	21.15	E	C
	ATOM	10033	O	ASN	E	704	-18.192	51.335	23.826	1.00	18.76	E	O
	ATOM	10034	N	TYR	E	705	-19.771	51.062	25.402	1.00	21.16	E	N
50	ATOM	10035	CA	TYR	E	705	-18.886	51.361	26.522	1.00	19.53	E	C
	ATOM	10036	CB	TYR	E	705	-19.613	51.058	27.845	1.00	18.01	E	C
	ATOM	10037	CG	TYR	E	705	-19.579	49.611	28.277	1.00	16.95	E	C
	ATOM	10038	CD1	TYR	E	705	-20.620	48.740	27.951	1.00	16.11	E	C
	ATOM	10039	CE1	TYR	E	705	-20.587	47.399	28.351	1.00	16.97	E	C
55	ATOM	10040	CD2	TYR	E	705	-18.500	49.109	29.015	1.00	15.34	E	C
	ATOM	10041	CE2	TYR	E	705	-18.458	47.779	29.418	1.00	15.68	E	C
	ATOM	10042	CZ	TYR	E	705	-19.502	46.930	29.085	1.00	18.28	E	C
	ATOM	10043	OH	TYR	E	705	-19.458	45.617	29.505	1.00	21.83	E	O
	ATOM	10044	C	TYR	E	705	-17.507	50.688	26.499	1.00	18.21	E	C
60	ATOM	10045	O	TYR	E	705	-16.543	51.240	27.027	1.00	19.40	E	O
	ATOM	10046	N	LEU	E	706	-17.394	49.518	25.880	1.00	17.50	E	N
	ATOM	10047	CA	LEU	E	706	-16.107	48.828	25.844	1.00	19.57	E	C
	ATOM	10048	CB	LEU	E	706	-16.303	47.353	25.471	1.00	17.79	E	C
	ATOM	10049	CG	LEU	E	706	-16.885	46.428	26.553	1.00	20.30	E	C
65	ATOM	10050	CD1	LEU	E	706	-17.296	45.102	25.921	1.00	14.96	E	C
	ATOM	10051	CD2	LEU	E	706	-15.869	46.198	27.667	1.00	12.13	E	C
	ATOM	10052	C	LEU	E	706	-15.106	49.476	24.883	1.00	23.16	E	C
	ATOM	10053	O	LEU	E	706	-13.901	49.217	24.959	1.00	22.79	E	O
	ATOM	10054	N	GLU	E	707	-15.602	50.318	23.982	1.00	25.48	E	N

	ATOM	10055	CA	GLU	E	707	-14.742	50.999	23.018	1.00	26.97	E	C
	ATOM	10056	CB	GLU	E	707	-15.569	51.456	21.812	1.00	31.15	E	C
	ATOM	10057	CG	GLU	E	707	-15.977	50.327	20.879	1.00	37.00	E	C
	ATOM	10058	CD	GLU	E	707	-14.796	49.467	20.473	1.00	42.72	E	C
5	ATOM	10059	OE1	GLU	E	707	-14.800	48.253	20.787	1.00	45.66	E	O
	ATOM	10060	OE2	GLU	E	707	-13.861	50.009	19.841	1.00	44.74	E	O
	ATOM	10061	C	GLU	E	707	-14.086	52.203	23.684	1.00	25.32	E	C
	ATOM	10062	O	GLU	E	707	-14.740	52.940	24.416	1.00	26.60	E	O
	ATOM	10063	N	GLU	E	708	-12.800	52.410	23.419	1.00	25.72	E	N
10	ATOM	10064	CA	GLU	E	708	-12.062	53.523	24.016	1.00	25.76	E	C
	ATOM	10065	CB	GLU	E	708	-10.571	53.178	24.109	1.00	27.15	E	C
	ATOM	10066	CG	GLU	E	708	-10.265	51.695	23.987	1.00	32.20	E	C
	ATOM	10067	CD	GLU	E	708	-9.357	51.181	25.089	1.00	32.83	E	C
	ATOM	10068	OE1	GLU	E	708	-8.165	51.538	25.084	1.00	32.13	E	O
15	ATOM	10069	OE2	GLU	E	708	-9.832	50.412	25.955	1.00	35.66	E	O
	ATOM	10070	C	GLU	E	708	-12.226	54.852	23.278	1.00	23.83	E	C
	ATOM	10071	O	GLU	E	708	-12.343	54.884	22.053	1.00	24.51	E	O
	ATOM	10072	N	GLY	E	709	-12.232	55.947	24.035	1.00	19.99	E	N
	ATOM	10073	CA	GLY	E	709	-12.368	57.261	23.439	1.00	15.35	E	C
20	ATOM	10074	C	GLY	E	709	-13.799	57.747	23.360	1.00	15.01	E	C
	ATOM	10075	O	GLY	E	709	-14.708	57.100	23.875	1.00	19.59	E	O
	ATOM	10076	N	PRO	E	710	-14.034	58.890	22.708	1.00	12.95	E	N
	ATOM	10077	CD	PRO	E	710	-13.004	59.717	22.058	1.00	10.41	E	C
	ATOM	10078	CA	PRO	E	710	-15.373	59.469	22.561	1.00	14.26	E	C
25	ATOM	10079	CB	PRO	E	710	-15.146	60.665	21.642	1.00	12.26	E	C
	ATOM	10080	CG	PRO	E	710	-13.710	61.006	21.820	1.00	10.13	E	C
	ATOM	10081	C	PRO	E	710	-16.403	58.509	21.978	1.00	15.04	E	C
	ATOM	10082	O	PRO	E	710	-17.589	58.579	22.290	1.00	17.01	E	O
	ATOM	10083	N	ILE	E	711	-15.936	57.616	21.123	1.00	16.55	E	N
30	ATOM	10084	CA	ILE	E	711	-16.805	56.665	20.468	1.00	17.32	E	C
	ATOM	10085	CB	ILE	E	711	-16.003	55.821	19.455	1.00	20.11	E	C
	ATOM	10086	CG2	ILE	E	711	-15.242	54.721	20.172	1.00	21.76	E	C
	ATOM	10087	CG1	ILE	E	711	-16.946	55.249	18.397	1.00	21.79	E	C
	ATOM	10088	CD1	ILE	E	711	-17.804	56.299	17.694	1.00	20.78	E	C
35	ATOM	10089	C	ILE	E	711	-17.537	55.755	21.443	1.00	19.75	E	C
	ATOM	10090	O	ILE	E	711	-18.680	55.359	21.193	1.00	20.12	E	O
	ATOM	10091	N	GLY	E	712	-16.897	55.441	22.565	1.00	19.20	E	N
	ATOM	10092	CA	GLY	E	712	-17.528	54.568	23.540	1.00	16.48	E	C
	ATOM	10093	C	GLY	E	712	-18.382	55.253	24.594	1.00	16.59	E	C
40	ATOM	10094	O	GLY	E	712	-18.885	54.593	25.501	1.00	19.74	E	O
	ATOM	10095	N	ASN	E	713	-18.567	56.564	24.494	1.00	13.51	E	N
	ATOM	10096	CA	ASN	E	713	-19.367	57.261	25.487	1.00	12.48	E	C
	ATOM	10097	CB	ASN	E	713	-18.613	58.469	26.047	1.00	10.00	E	C
	ATOM	10098	CG	ASN	E	713	-19.473	59.309	26.984	1.00	9.27	E	C
45	ATOM	10099	OD1	ASN	E	713	-19.646	60.504	26.779	1.00	10.84	E	O
	ATOM	10100	ND2	ASN	E	713	-20.021	58.677	28.018	1.00	6.33	E	N
	ATOM	10101	C	ASN	E	713	-20.707	57.729	24.962	1.00	14.31	E	C
	ATOM	10102	O	ASN	E	713	-20.784	58.377	23.922	1.00	14.75	E	O
	ATOM	10103	N	ASP	E	714	-21.766	57.403	25.696	1.00	15.22	E	N
50	ATOM	10104	CA	ASP	E	714	-23.110	57.826	25.328	1.00	15.24	E	C
	ATOM	10105	CB	ASP	E	714	-24.066	56.634	25.334	1.00	17.21	E	C
	ATOM	10106	CG	ASP	E	714	-25.459	56.996	24.851	1.00	20.12	E	C
	ATOM	10107	OD1	ASP	E	714	-25.768	58.202	24.714	1.00	20.68	E	O
	ATOM	10108	OD2	ASP	E	714	-26.252	56.065	24.610	1.00	21.39	E	O
55	ATOM	10109	C	ASP	E	714	-23.512	58.830	26.396	1.00	16.65	E	C
	ATOM	10110	O	ASP	E	714	-23.993	58.449	27.461	1.00	18.05	E	O
	ATOM	10111	N	ILE	E	715	-23.297	60.111	26.115	1.00	16.41	E	N
	ATOM	10112	CA	ILE	E	715	-23.614	61.162	27.071	1.00	15.64	E	C
	ATOM	10113	CB	ILE	E	715	-23.312	62.560	26.481	1.00	17.18	E	C
60	ATOM	10114	CG2	ILE	E	715	-24.287	62.880	25.345	1.00	13.84	E	C
	ATOM	10115	CG1	ILE	E	715	-23.393	63.619	27.587	1.00	14.10	E	C
	ATOM	10116	CD1	ILE	E	715	-23.075	65.027	27.110	1.00	11.61	E	C
	ATOM	10117	C	ILE	E	715	-25.050	61.126	27.554	1.00	15.89	E	C
	ATOM	10118	O	ILE	E	715	-25.353	61.618	28.635	1.00	19.89	E	O
65	ATOM	10119	N	ARG	E	716	-25.940	60.541	26.768	1.00	18.33	E	N
	ATOM	10120	CA	ARG	E	716	-27.342	60.479	27.165	1.00	20.91	E	C
	ATOM	10121	CB	ARG	E	716	-28.194	59.899	26.030	1.00	25.29	E	C
	ATOM	10122	CG	ARG	E	716	-28.598	60.912	24.972	1.00	27.93	E	C

	ATOM	10123	CD	ARG	E	716	-29.298	60.248	23.800	1.00	36.42	E	C
	ATOM	10124	NE	ARG	E	716	-28.610	59.039	23.347	1.00	44.20	E	N
	ATOM	10125	CZ	ARG	E	716	-29.164	58.110	22.569	1.00	45.15	E	C
	ATOM	10126	NH1	ARG	E	716	-30.418	58.252	22.156	1.00	44.13	E	N
5	ATOM	10127	NH2	ARG	E	716	-28.467	57.038	22.207	1.00	43.92	E	N
	ATOM	10128	C	ARG	E	716	-27.487	59.612	28.398	1.00	18.75	E	C
	ATOM	10129	O	ARG	E	716	-28.472	59.701	29.117	1.00	20.54	E	O
	ATOM	10130	N	LYS	E	717	-26.486	58.778	28.641	1.00	19.24	E	N
	ATOM	10131	CA	LYS	E	717	-26.503	57.871	29.775	1.00	19.59	E	C
10	ATOM	10132	CB	LYS	E	717	-26.265	56.442	29.280	1.00	20.28	E	C
	ATOM	10133	CG	LYS	E	717	-27.551	55.685	28.946	1.00	22.63	E	C
	ATOM	10134	CD	LYS	E	717	-27.268	54.522	28.025	1.00	26.14	E	C
	ATOM	10135	CE	LYS	E	717	-28.510	53.679	27.781	1.00	29.98	E	C
	ATOM	10136	NZ	LYS	E	717	-28.173	52.393	27.066	1.00	31.75	E	N
15	ATOM	10137	C	LYS	E	717	-25.499	58.211	30.880	1.00	19.85	E	C
	ATOM	10138	O	LYS	E	717	-25.772	57.990	32.064	1.00	21.47	E	O
	ATOM	10139	N	THR	E	718	-24.350	58.761	30.499	1.00	17.40	E	N
	ATOM	10140	CA	THR	E	718	-23.310	59.098	31.461	1.00	15.63	E	C
	ATOM	10141	CB	THR	E	718	-21.939	58.726	30.911	1.00	16.82	E	C
20	ATOM	10142	OG1	THR	E	718	-21.622	59.600	29.818	1.00	17.62	E	O
	ATOM	10143	CG2	THR	E	718	-21.930	57.287	30.427	1.00	13.40	E	C
	ATOM	10144	C	THR	E	718	-23.225	60.562	31.903	1.00	17.39	E	C
	ATOM	10145	O	THR	E	718	-22.696	60.854	32.970	1.00	17.05	E	O
	ATOM	10146	N	ASN	E	719	-23.738	61.480	31.092	1.00	16.36	E	N
25	ATOM	10147	CA	ASN	E	719	-23.667	62.906	31.399	1.00	14.18	E	C
	ATOM	10148	CB	ASN	E	719	-24.358	63.234	32.723	1.00	14.36	E	C
	ATOM	10149	CG	ASN	E	719	-24.890	64.671	32.767	1.00	15.99	E	C
	ATOM	10150	OD1	ASN	E	719	-25.614	65.115	31.872	1.00	18.91	E	O
	ATOM	10151	ND2	ASN	E	719	-24.533	65.397	33.810	1.00	16.58	E	N
30	ATOM	10152	C	ASN	E	719	-22.216	63.386	31.441	1.00	13.41	E	C
	ATOM	10153	O	ASN	E	719	-21.881	64.340	32.147	1.00	13.98	E	O
	ATOM	10154	N	VAL	E	720	-21.359	62.714	30.680	1.00	12.60	E	N
	ATOM	10155	CA	VAL	E	720	-19.954	63.080	30.589	1.00	13.36	E	C
	ATOM	10156	CB	VAL	E	720	-19.046	61.838	30.658	1.00	12.76	E	C
35	ATOM	10157	CG1	VAL	E	720	-17.592	62.243	30.445	1.00	13.09	E	C
	ATOM	10158	CG2	VAL	E	720	-19.206	61.156	32.001	1.00	10.26	E	C
	ATOM	10159	C	VAL	E	720	-19.773	63.762	29.231	1.00	15.26	E	C
	ATOM	10160	O	VAL	E	720	-20.101	63.186	28.194	1.00	14.80	E	O
	ATOM	10161	N	ALA	E	721	-19.259	64.988	29.242	1.00	13.90	E	N
40	ATOM	10162	CA	ALA	E	721	-19.055	65.755	28.017	1.00	10.31	E	C
	ATOM	10163	CB	ALA	E	721	-18.444	67.106	28.351	1.00	8.89	E	C
	ATOM	10164	C	ALA	E	721	-18.170	65.020	27.024	1.00	9.64	E	C
	ATOM	10165	O	ALA	E	721	-17.223	64.348	27.409	1.00	10.02	E	O
	ATOM	10166	N	GLN	E	722	-18.478	65.148	25.741	1.00	11.46	E	N
45	ATOM	10167	CA	GLN	E	722	-17.674	64.492	24.725	1.00	11.24	E	C
	ATOM	10168	CB	GLN	E	722	-18.431	64.446	23.402	1.00	13.02	E	C
	ATOM	10169	CG	GLN	E	722	-19.469	63.326	23.329	1.00	13.92	E	C
	ATOM	10170	CD	GLN	E	722	-18.863	61.930	23.444	1.00	15.75	E	C
	ATOM	10171	OE1	GLN	E	722	-18.808	61.180	22.472	1.00	18.92	E	O
50	ATOM	10172	NE2	GLN	E	722	-18.416	61.577	24.636	1.00	16.80	E	N
	ATOM	10173	C	GLN	E	722	-16.359	65.250	24.581	1.00	12.14	E	C
	ATOM	10174	O	GLN	E	722	-15.356	64.711	24.099	1.00	13.65	E	O
	ATOM	10175	N	ILE	E	723	-16.361	66.505	25.020	1.00	12.98	E	N
	ATOM	10176	CA	ILE	E	723	-15.160	67.324	24.976	1.00	12.88	E	C
55	ATOM	10177	CB	ILE	E	723	-15.456	68.768	25.413	1.00	15.13	E	C
	ATOM	10178	CG2	ILE	E	723	-14.142	69.526	25.636	1.00	11.59	E	C
	ATOM	10179	CG1	ILE	E	723	-16.313	69.463	24.349	1.00	14.60	E	C
	ATOM	10180	CD1	ILE	E	723	-16.639	70.915	24.661	1.00	14.99	E	C
	ATOM	10181	C	ILE	E	723	-14.143	66.722	25.941	1.00	14.66	E	C
60	ATOM	10182	O	ILE	E	723	-12.939	66.709	25.667	1.00	17.85	E	O
	ATOM	10183	N	ARG	E	724	-14.633	66.215	27.072	1.00	12.32	E	N
	ATOM	10184	CA	ARG	E	724	-13.774	65.609	28.075	1.00	9.30	E	C
	ATOM	10185	CB	ARG	E	724	-14.554	65.407	29.383	1.00	13.21	E	C
	ATOM	10186	CG	ARG	E	724	-13.758	64.776	30.542	1.00	11.65	E	C
65	ATOM	10187	CD	ARG	E	724	-12.563	65.632	30.986	1.00	12.43	E	C
	ATOM	10188	NE	ARG	E	724	-12.968	66.922	31.537	1.00	13.26	E	N
	ATOM	10189	CZ	ARG	E	724	-13.255	67.145	32.819	1.00	15.09	E	C
	ATOM	10190	NH1	ARG	E	724	-13.187	66.163	33.715	1.00	12.83	E	N

	ATOM	10191	NH2	ARG	E	724	-13.623	68.356	33.204	1.00	10.68	E	N
	ATOM	10192	C	ARG	E	724	-13.246	64.283	27.557	1.00	8.65	E	C
	ATOM	10193	O	ARG	E	724	-12.058	63.982	27.694	1.00	9.68	E	O
5	ATOM	10194	N	MET	E	725	-14.120	63.484	26.955	1.00	8.43	E	N
	ATOM	10195	CA	MET	E	725	-13.686	62.195	26.414	1.00	11.33	E	C
	ATOM	10196	CB	MET	E	725	-14.867	61.453	25.787	1.00	8.10	E	C
	ATOM	10197	CG	MET	E	725	-15.940	61.031	26.774	1.00	8.21	E	C
	ATOM	10198	SD	MET	E	725	-15.400	59.749	27.938	1.00	11.31	E	S
10	ATOM	10199	CE	MET	E	725	-14.858	58.473	26.855	1.00	7.47	E	C
	ATOM	10200	C	MET	E	725	-12.585	62.388	25.359	1.00	11.83	E	C
	ATOM	10201	O	MET	E	725	-11.581	61.670	25.358	1.00	13.56	E	O
	ATOM	10202	N	ALA	E	726	-12.771	63.363	24.473	1.00	11.97	E	N
	ATOM	10203	CA	ALA	E	726	-11.787	63.627	23.430	1.00	11.57	E	C
15	ATOM	10204	CB	ALA	E	726	-12.319	64.668	22.447	1.00	12.94	E	C
	ATOM	10205	C	ALA	E	726	-10.482	64.102	24.036	1.00	11.69	E	C
	ATOM	10206	O	ALA	E	726	-9.401	63.678	23.623	1.00	13.24	E	O
	ATOM	10207	N	TYR	E	727	-10.574	64.989	25.020	1.00	11.58	E	N
	ATOM	10208	CA	TYR	E	727	-9.370	65.486	25.664	1.00	9.89	E	C
20	ATOM	10209	CB	TYR	E	727	-9.717	66.508	26.744	1.00	9.77	E	C
	ATOM	10210	CG	TYR	E	727	-8.520	66.874	27.588	1.00	9.00	E	C
	ATOM	10211	CD1	TYR	E	727	-8.277	66.242	28.804	1.00	8.39	E	C
	ATOM	10212	CE1	TYR	E	727	-7.147	66.551	29.567	1.00	9.23	E	C
	ATOM	10213	CD2	TYR	E	727	-7.604	67.828	27.151	1.00	9.12	E	C
25	ATOM	10214	CE2	TYR	E	727	-6.468	68.144	27.907	1.00	7.45	E	C
	ATOM	10215	CZ	TYR	E	727	-6.250	67.500	29.110	1.00	10.01	E	C
	ATOM	10216	OH	TYR	E	727	-5.138	67.797	29.858	1.00	11.50	E	O
	ATOM	10217	C	TYR	E	727	-8.590	64.332	26.291	1.00	11.57	E	C
	ATOM	10218	O	TYR	E	727	-7.397	64.180	26.052	1.00	11.40	E	O
30	ATOM	10219	N	ARG	E	728	-9.262	63.520	27.099	1.00	11.14	E	N
	ATOM	10220	CA	ARG	E	728	-8.599	62.389	27.742	1.00	12.55	E	C
	ATOM	10221	CB	ARG	E	728	-9.607	61.547	28.541	1.00	10.30	E	C
	ATOM	10222	CG	ARG	E	728	-10.220	62.258	29.731	1.00	11.86	E	C
	ATOM	10223	CD	ARG	E	728	-9.172	62.595	30.772	1.00	8.87	E	C
35	ATOM	10224	NE	ARG	E	728	-9.778	63.154	31.975	1.00	9.16	E	N
	ATOM	10225	CZ	ARG	E	728	-9.100	63.780	32.928	1.00	8.19	E	C
	ATOM	10226	NH1	ARG	E	728	-7.790	63.927	32.816	1.00	7.90	E	N
	ATOM	10227	NH2	ARG	E	728	-9.730	64.255	33.995	1.00	8.24	E	N
	ATOM	10228	C	ARG	E	728	-7.945	61.496	26.705	1.00	13.02	E	C
40	ATOM	10229	O	ARG	E	728	-6.778	61.126	26.826	1.00	16.56	E	O
	ATOM	10230	N	TYR	E	729	-8.708	61.148	25.676	1.00	14.79	E	N
	ATOM	10231	CA	TYR	E	729	-8.214	60.261	24.636	1.00	9.93	E	C
	ATOM	10232	CB	TYR	E	729	-9.320	60.005	23.629	1.00	14.90	E	C
	ATOM	10233	CG	TYR	E	729	-9.029	58.866	22.687	1.00	21.80	E	C
45	ATOM	10234	CD1	TYR	E	729	-8.606	57.624	23.168	1.00	18.00	E	C
	ATOM	10235	CE1	TYR	E	729	-8.330	56.576	22.289	1.00	21.45	E	C
	ATOM	10236	CD2	TYR	E	729	-9.171	59.032	21.300	1.00	21.35	E	C
	ATOM	10237	CE2	TYR	E	729	-8.898	57.995	20.424	1.00	22.88	E	C
	ATOM	10238	CZ	TYR	E	729	-8.480	56.773	20.919	1.00	23.09	E	C
50	ATOM	10239	OH	TYR	E	729	-8.221	55.753	20.034	1.00	27.10	E	O
	ATOM	10240	C	TYR	E	729	-6.981	60.786	23.929	1.00	10.79	E	C
	ATOM	10241	O	TYR	E	729	-5.979	60.089	23.822	1.00	12.40	E	O
	ATOM	10242	N	GLU	E	730	-7.050	62.021	23.447	1.00	11.41	E	N
	ATOM	10243	CA	GLU	E	730	-5.927	62.614	22.731	1.00	10.75	E	C
55	ATOM	10244	CB	GLU	E	730	-6.307	63.988	22.186	1.00	8.20	E	C
	ATOM	10245	CG	GLU	E	730	-7.560	63.981	21.338	1.00	9.42	E	C
	ATOM	10246	CD	GLU	E	730	-8.043	65.371	21.017	1.00	14.44	E	C
	ATOM	10247	OE1	GLU	E	730	-9.158	65.501	20.476	1.00	21.34	E	O
	ATOM	10248	OE2	GLU	E	730	-7.313	66.340	21.304	1.00	19.08	E	O
60	ATOM	10249	C	GLU	E	730	-4.666	62.737	23.570	1.00	13.04	E	C
	ATOM	10250	O	GLU	E	730	-3.564	62.440	23.085	1.00	12.36	E	O
	ATOM	10251	N	THR	E	731	-4.799	63.163	24.827	1.00	13.98	E	N
	ATOM	10252	CA	THR	E	731	-3.602	63.304	25.637	1.00	11.77	E	C
	ATOM	10253	CB	THR	E	731	-3.829	64.250	26.851	1.00	13.77	E	C
65	ATOM	10254	OG1	THR	E	731	-3.770	63.511	28.069	1.00	17.90	E	O
	ATOM	10255	CG2	THR	E	731	-5.143	64.965	26.738	1.00	6.19	E	C
	ATOM	10256	C	THR	E	731	-3.035	61.948	26.057	1.00	10.62	E	C
	ATOM	10257	O	THR	E	731	-1.836	61.826	26.310	1.00	12.56	E	O
	ATOM	10258	N	TRP	E	732	-3.877	60.919	26.092	1.00	9.32	E	N

	ATOM	10259	CA	TRP	E	732	-3.400	59.582	26.436	1.00	9.16	E	C
	ATOM	10260	CB	TRP	E	732	-4.577	58.659	26.760	1.00	6.43	E	C
	ATOM	10261	CG	TRP	E	732	-4.190	57.236	27.101	1.00	7.18	E	C
5	ATOM	10262	CD2	TRP	E	732	-5.027	56.072	26.998	1.00	6.20	E	C
	ATOM	10263	CE2	TRP	E	732	-4.265	54.965	27.439	1.00	6.38	E	C
	ATOM	10264	CE3	TRP	E	732	-6.350	55.859	26.577	1.00	10.94	E	C
	ATOM	10265	CD1	TRP	E	732	-2.988	56.799	27.585	1.00	8.15	E	C
	ATOM	10266	NE1	TRP	E	732	-3.025	55.433	27.793	1.00	9.49	E	N
10	ATOM	10267	CZ2	TRP	E	732	-4.779	53.659	27.470	1.00	6.68	E	C
	ATOM	10268	CZ3	TRP	E	732	-6.866	54.550	26.613	1.00	11.96	E	C
	ATOM	10269	CH2	TRP	E	732	-6.075	53.472	27.057	1.00	6.95	E	C
	ATOM	10270	C	TRP	E	732	-2.617	59.035	25.239	1.00	11.27	E	C
	ATOM	10271	O	TRP	E	732	-1.527	58.481	25.393	1.00	14.08	E	O
	ATOM	10272	N	CYS	E	733	-3.172	59.198	24.042	1.00	12.91	E	N
15	ATOM	10273	CA	CYS	E	733	-2.511	58.726	22.823	1.00	15.09	E	C
	ATOM	10274	CB	CYS	E	733	-3.414	58.958	21.608	1.00	14.40	E	C
	ATOM	10275	SG	CYS	E	733	-4.753	57.753	21.465	1.00	19.69	E	S
	ATOM	10276	C	CYS	E	733	-1.187	59.449	22.613	1.00	14.02	E	C
	ATOM	10277	O	CYS	E	733	-0.183	58.848	22.236	1.00	14.85	E	O
20	ATOM	10278	N	TYR	E	734	-1.189	60.750	22.864	1.00	15.32	E	N
	ATOM	10279	CA	TYR	E	734	0.009	61.551	22.694	1.00	15.27	E	C
	ATOM	10280	CB	TYR	E	734	-0.293	63.006	23.059	1.00	16.78	E	C
	ATOM	10281	CG	TYR	E	734	0.804	63.985	22.692	1.00	18.85	E	C
	ATOM	10282	CD1	TYR	E	734	0.766	64.692	21.487	1.00	17.65	E	C
25	ATOM	10283	CE1	TYR	E	734	1.758	65.617	21.161	1.00	18.62	E	C
	ATOM	10284	CD2	TYR	E	734	1.865	64.224	23.560	1.00	20.52	E	C
	ATOM	10285	CE2	TYR	E	734	2.863	65.147	23.243	1.00	22.80	E	C
	ATOM	10286	CZ	TYR	E	734	2.802	65.840	22.046	1.00	22.99	E	C
	ATOM	10287	OH	TYR	E	734	3.779	66.767	21.756	1.00	25.70	E	O
30	ATOM	10288	C	TYR	E	734	1.181	61.034	23.528	1.00	16.99	E	C
	ATOM	10289	O	TYR	E	734	2.320	60.990	23.056	1.00	19.99	E	O
	ATOM	10290	N	GLU	E	735	0.910	60.637	24.769	1.00	16.16	E	N
	ATOM	10291	CA	GLU	E	735	1.970	60.145	25.642	1.00	12.91	E	C
	ATOM	10292	CB	GLU	E	735	1.444	59.975	27.073	1.00	16.97	E	C
35	ATOM	10293	CG	GLU	E	735	1.092	61.285	27.783	1.00	13.40	E	C
	ATOM	10294	CD	GLU	E	735	2.263	62.253	27.875	1.00	14.63	E	C
	ATOM	10295	OE1	GLU	E	735	3.365	61.840	28.304	1.00	14.81	E	O
	ATOM	10296	OE2	GLU	E	735	2.078	63.440	27.522	1.00	17.34	E	O
	ATOM	10297	C	GLU	E	735	2.542	58.827	25.148	1.00	13.03	E	C
40	ATOM	10298	O	GLU	E	735	3.759	58.633	25.129	1.00	14.41	E	O
	ATOM	10299	N	LEU	E	736	1.665	57.913	24.756	1.00	13.24	E	N
	ATOM	10300	CA	LEU	E	736	2.103	56.615	24.256	1.00	14.86	E	C
	ATOM	10301	CB	LEU	E	736	0.895	55.736	23.941	1.00	11.83	E	C
	ATOM	10302	CG	LEU	E	736	0.132	55.228	25.162	1.00	11.58	E	C
45	ATOM	10303	CD1	LEU	E	736	-1.285	54.831	24.759	1.00	6.38	E	C
	ATOM	10304	CD2	LEU	E	736	0.892	54.059	25.780	1.00	8.24	E	C
	ATOM	10305	C	LEU	E	736	2.947	56.790	23.004	1.00	15.91	E	C
	ATOM	10306	O	LEU	E	736	3.977	56.134	22.828	1.00	18.22	E	O
	ATOM	10307	N	ASN	E	737	2.509	57.692	22.138	1.00	16.91	E	N
50	ATOM	10308	CA	ASN	E	737	3.214	57.958	20.895	1.00	19.52	E	C
	ATOM	10309	CB	ASN	E	737	2.426	58.965	20.065	1.00	18.10	E	C
	ATOM	10310	CG	ASN	E	737	2.964	59.100	18.676	1.00	20.85	E	C
	ATOM	10311	OD1	ASN	E	737	3.089	58.118	17.954	1.00	27.73	E	O
	ATOM	10312	ND2	ASN	E	737	3.296	60.320	18.287	1.00	23.12	E	N
55	ATOM	10313	C	ASN	E	737	4.638	58.464	21.107	1.00	20.63	E	C
	ATOM	10314	O	ASN	E	737	5.542	58.139	20.332	1.00	22.68	E	O
	ATOM	10315	N	LEU	E	738	4.843	59.260	22.151	1.00	17.98	E	N
	ATOM	10316	CA	LEU	E	738	6.170	59.796	22.430	1.00	18.12	E	C
	ATOM	10317	CB	LEU	E	738	6.154	60.633	23.710	1.00	16.25	E	C
60	ATOM	10318	CG	LEU	E	738	5.473	62.000	23.607	1.00	17.59	E	C
	ATOM	10319	CD1	LEU	E	738	5.370	62.633	24.988	1.00	12.29	E	C
	ATOM	10320	CD2	LEU	E	738	6.270	62.895	22.670	1.00	12.70	E	C
	ATOM	10321	C	LEU	E	738	7.168	58.661	22.582	1.00	19.29	E	C
	ATOM	10322	O	LEU	E	738	8.333	58.786	22.208	1.00	21.13	E	O
65	ATOM	10323	N	ILE	E	739	6.699	57.549	23.132	1.00	19.03	E	N
	ATOM	10324	CA	ILE	E	739	7.545	56.389	23.338	1.00	19.77	E	C
	ATOM	10325	CB	ILE	E	739	6.893	55.404	24.326	1.00	20.10	E	C
	ATOM	10326	CG2	ILE	E	739	7.749	54.145	24.454	1.00	19.10	E	C

325

	ATOM	10327	CG1	ILE	E	739	6.747	56.075	25.695	1.00	20.94	E	C
	ATOM	10328	CD1	ILE	E	739	5.718	55.425	26.594	1.00	23.15	E	C
	ATOM	10329	C	ILE	E	739	7.820	55.675	22.021	1.00	19.72	E	C
	ATOM	10330	O	ILE	E	739	8.954	55.281	21.746	1.00	19.13	E	O
5	ATOM	10331	N	ALA	E	740	6.782	55.512	21.210	1.00	19.95	E	N
	ATOM	10332	CA	ALA	E	740	6.922	54.844	19.921	1.00	21.51	E	C
	ATOM	10333	CB	ALA	E	740	5.572	54.784	19.212	1.00	18.77	E	C
	ATOM	10334	C	ALA	E	740	7.936	55.586	19.058	1.00	20.79	E	C
10	ATOM	10335	O	ALA	E	740	8.777	54.971	18.407	1.00	18.54	E	O
	ATOM	10336	N	GLU	E	741	7.853	56.913	19.064	1.00	22.16	E	N
	ATOM	10337	CA	GLU	E	741	8.761	57.745	18.282	1.00	22.79	E	C
	ATOM	10338	CB	GLU	E	741	8.339	59.210	18.370	1.00	22.17	E	C
	ATOM	10339	CG	GLU	E	741	6.932	59.476	17.884	1.00	30.33	E	C
	ATOM	10340	CD	GLU	E	741	6.829	59.529	16.372	1.00	32.52	E	C
15	ATOM	10341	OE1	GLU	E	741	6.054	58.734	15.795	1.00	33.04	E	O
	ATOM	10342	OE2	GLU	E	741	7.522	60.368	15.760	1.00	34.24	E	O
	ATOM	10343	C	GLU	E	741	10.209	57.611	18.747	1.00	23.40	E	C
	ATOM	10344	O	GLU	E	741	11.129	57.622	17.932	1.00	23.65	E	O
	ATOM	10345	N	GLY	E	742	10.410	57.493	20.055	1.00	23.00	E	N
20	ATOM	10346	CA	GLY	E	742	11.755	57.364	20.581	1.00	24.49	E	C
	ATOM	10347	C	GLY	E	742	12.408	56.061	20.165	1.00	27.77	E	C
	ATOM	10348	O	GLY	E	742	13.625	55.898	20.278	1.00	29.36	E	O
	ATOM	10349	N	LEU	E	743	11.595	55.131	19.676	1.00	29.34	E	N
25	ATOM	10350	CA	LEU	E	743	12.069	53.822	19.243	1.00	30.18	E	C
	ATOM	10351	CB	LEU	E	743	11.186	52.727	19.849	1.00	27.96	E	C
	ATOM	10352	CG	LEU	E	743	11.547	52.034	21.172	1.00	28.83	E	C
	ATOM	10353	CD1	LEU	E	743	12.618	52.797	21.928	1.00	26.80	E	C
	ATOM	10354	CD2	LEU	E	743	10.282	51.911	22.012	1.00	25.80	E	C
	ATOM	10355	C	LEU	E	743	12.040	53.693	17.721	1.00	32.97	E	C
30	ATOM	10356	O	LEU	E	743	12.574	52.732	17.166	1.00	34.89	E	O
	ATOM	10357	N	LYS	E	744	11.409	54.657	17.054	1.00	35.58	E	N
	ATOM	10358	CA	LYS	E	744	11.279	54.653	15.595	1.00	38.24	E	C
	ATOM	10359	CB	LYS	E	744	10.535	55.912	15.133	1.00	34.62	E	C
	ATOM	10360	CG	LYS	E	744	9.183	55.644	14.506	1.00	33.22	E	C
35	ATOM	10361	CD	LYS	E	744	9.037	56.383	13.193	1.00	35.72	E	C
	ATOM	10362	CE	LYS	E	744	7.785	57.245	13.172	1.00	39.12	E	C
	ATOM	10363	NZ	LYS	E	744	7.804	58.217	12.040	1.00	40.75	E	N
	ATOM	10364	C	LYS	E	744	12.609	54.562	14.848	1.00	42.42	E	C
	ATOM	10365	O	LYS	E	744	13.655	54.976	15.357	1.00	42.26	E	O
40	ATOM	10366	N	SER	E	745	12.548	54.019	13.632	1.00	47.33	E	N
	ATOM	10367	CA	SER	E	745	13.716	53.871	12.765	1.00	52.15	E	C
	ATOM	10368	CB	SER	E	745	14.818	53.083	13.480	1.00	53.25	E	C
	ATOM	10369	OG	SER	E	745	16.048	53.785	13.420	1.00	55.45	E	O
	ATOM	10370	C	SER	E	745	13.346	53.170	11.455	1.00	54.83	E	C
45	ATOM	10371	O	SER	E	745	13.704	51.979	11.296	1.00	57.07	E	O
	ATOM	10372	OT	SER	E	745	12.700	53.822	10.602	1.00	56.51	E	O
	ATOM	10373	ZN	ZN	Y	895	26.296	64.563	54.507	1.00	14.06	Y	
	ATOM	10374	ZN	ZN	Z	896	-10.467	48.570	52.381	1.00	14.46	Z	
50	ATOM	1	C1	COF	H	1	28.760	61.746	50.260	1.00	20.00		
	ATOM	2	O1	COF	H	1	30.110	62.108	50.530	1.00	20.00		
	ATOM	3	C5	COF	H	1	30.946	61.172	49.775	1.00	20.00		
	ATOM	4	C8	COF	H	1	32.108	61.907	49.222	1.00	20.00		
	ATOM	5	O6	COF	H	1	32.257	63.157	49.888	1.00	20.00		
55	ATOM	6	C4	COF	H	1	30.025	60.529	48.719	1.00	20.00		
	ATOM	7	O5	COF	H	1	29.750	59.182	49.110	1.00	20.00		
	ATOM	8	C3	COF	H	1	28.754	61.392	48.766	1.00	20.00		
	ATOM	9	O4	COF	H	1	27.594	60.691	48.387	1.00	20.00		
	ATOM	10	N2	COF	H	1	27.905	62.853	50.641	1.00	20.00		
60	ATOM	11	C6	COF	H	1	26.618	62.735	51.155	1.00	20.00		
	ATOM	12	N3	COF	H	1	26.073	61.486	51.359	1.00	20.00		
	ATOM	13	C7	COF	H	1	24.839	61.344	51.737	1.00	20.00		
	ATOM	14	N4	COF	H	1	23.872	62.232	51.951	1.00	20.00		
	ATOM	15	C9	COF	H	1	23.783	63.607	51.445	1.00	20.00		
	ATOM	16	C10	COF	H	1	24.915	64.483	51.937	1.00	20.00		
65	ATOM	17	O7	COF	H	1	24.920	64.561	53.378	1.00	20.00		
	ATOM	18	C11	COF	H	1	26.216	64.015	51.399	1.00	20.00		
	ATOM	19	N1	COF	H	1	27.226	64.913	51.012	1.00	20.00		
	ATOM	20	C2	COF	H	1	28.214	64.183	50.560	1.00	20.00		

5	ATOM	1	C1	COF	J	1	-14.579	48.848	55.225	1.00	20.00	C	C
	ATOM	2	O1	COF	J	1	-14.156	48.925	56.582	1.00	20.00	C	O
	ATOM	3	C5	COF	J	1	-15.140	49.761	57.273	1.00	20.00	C	C
	ATOM	4	C8	COF	J	1	-15.382	49.199	58.623	1.00	20.00	C	C
	ATOM	5	O6	COF	J	1	-14.344	48.286	58.965	1.00	20.00	C	O
	ATOM	6	C4	COF	J	1	-16.381	49.808	56.360	1.00	20.00	C	C
	ATOM	7	O5	COF	J	1	-16.456	51.101	55.755	1.00	20.00	C	O
10	ATOM	8	C3	COF	J	1	-16.107	48.719	55.311	1.00	20.00	C	C
	ATOM	9	O4	COF	J	1	-16.735	48.967	54.076	1.00	20.00	C	O
	ATOM	10	N2	COF	J	1	-13.895	47.737	54.595	1.00	20.00	C	N
	ATOM	11	C6	COF	J	1	-13.495	47.689	53.264	1.00	20.00	C	C
15	ATOM	12	N3	COF	J	1	-13.725	48.769	52.439	1.00	20.00	C	N
	ATOM	13	C7	COF	J	1	-13.460	48.714	51.170	1.00	20.00	C	C
	ATOM	14	N4	COF	J	1	-13.008	47.726	50.402	1.00	20.00	C	N
	ATOM	15	C9	COF	J	1	-13.047	46.284	50.673	1.00	20.00	C	C
	ATOM	16	C10	COF	J	1	-12.257	45.902	51.906	1.00	20.00	C	C
20	ATOM	17	O7	COF	J	1	-10.868	46.270	51.765	1.00	20.00	C	O
	ATOM	18	C11	COF	J	1	-12.867	46.486	53.126	1.00	20.00	C	C
	ATOM	19	N1	COF	J	1	-12.906	45.787	54.345	1.00	20.00	C	N
	ATOM	20	C2	COF	J	1	-13.531	46.562	55.194	1.00	20.00	C	C
END													

Table 4: Atomic coordinates for AMPDA with UK-384,858

REMARK xplor input															
5	CRYST1	149.265	149.265	158.595	90.00	90.00	90.00	P42212							
	SCALE1	0.00670	0.00000	0.00000			0.00000								
	SCALE2	0.00000	0.00670	0.00000			0.00000								
	SCALE3	0.00000	0.00000	0.00631			0.00000								
REMARK FILENAME="brefinement.pdb"															
REMARK r= 0.260115 free_r= 0.284984															
10	REMARK	DATE:24-May-00	12:17:44	created by user: chrisp											
	ATOM	1	CB	SER A 106	17.453	72.613	93.123	1.00	43.12	A C					
	ATOM	2	OG	SER A 106	18.525	72.989	92.276	1.00	45.52	A O					
	ATOM	3	C	SER A 106	18.676	74.346	94.464	1.00	41.98	A C					
	ATOM	4	O	SER A 106	18.496	75.457	93.960	1.00	43.03	A O					
15	ATOM	5	N	SER A 106	16.253	73.936	94.839	1.00	42.44	A N					
	ATOM	6	CA	SER A 106	17.556	73.302	94.487	1.00	42.11	A C					
	ATOM	7	N	PRO A 107	19.855	73.993	95.002	1.00	40.34	A N					
	ATOM	8	CD	PRO A 107	20.187	72.686	95.597	1.00	39.37	A C					
	ATOM	9	CA	PRO A 107	20.997	74.913	95.041	1.00	39.23	A C					
20	ATOM	10	CB	PRO A 107	22.075	74.126	95.793	1.00	37.41	A C					
	ATOM	11	CG	PRO A 107	21.366	73.001	96.452	1.00	37.90	A C					
	ATOM	12	C	PRO A 107	21.510	75.417	93.685	1.00	39.51	A C					
	ATOM	13	O	PRO A 107	22.098	76.498	93.605	1.00	39.91	A O					
	ATOM	14	N	THR A 108	21.284	74.647	92.624	1.00	38.48	A N					
25	ATOM	15	CA	THR A 108	21.771	75.029	91.301	1.00	37.98	A C					
	ATOM	16	CB	THR A 108	21.867	73.789	90.369	1.00	37.59	A C					
	ATOM	17	OG1	THR A 108	20.562	73.424	89.900	1.00	37.69	A O					
	ATOM	18	CG2	THR A 108	22.481	72.612	91.116	1.00	37.90	A C					
	ATOM	19	C	THR A 108	20.985	76.131	90.579	1.00	37.49	A C					
30	ATOM	20	O	THR A 108	21.329	76.497	89.452	1.00	38.09	A O					
	ATOM	21	N	TYR A 109	19.953	76.676	91.220	1.00	36.10	A N					
	ATOM	22	CA	TYR A 109	19.156	77.725	90.588	1.00	34.17	A C					
	ATOM	23	CB	TYR A 109	17.667	77.452	90.803	1.00	33.68	A C					
	ATOM	24	CG	TYR A 109	17.085	76.513	89.771	1.00	35.35	A C					
35	ATOM	25	CD1	TYR A 109	17.793	75.386	89.346	1.00	35.54	A C					
	ATOM	26	CE1	TYR A 109	17.262	74.514	88.397	1.00	35.06	A C					
	ATOM	27	CD2	TYR A 109	15.828	76.747	89.216	1.00	35.25	A C					
	ATOM	28	CE2	TYR A 109	15.289	75.881	88.267	1.00	35.37	A C					
	ATOM	29	CZ	TYR A 109	16.009	74.768	87.864	1.00	35.12	A C					
40	ATOM	30	OH	TYR A 109	15.463	73.902	86.944	1.00	36.34	A O					
	ATOM	31	C	TYR A 109	19.503	79.129	91.071	1.00	32.85	A C					
	ATOM	32	O	TYR A 109	18.808	80.093	90.747	1.00	32.02	A O					
	ATOM	33	N	GLN A 110	20.584	79.239	91.836	1.00	31.18	A N					
	ATOM	34	CA	GLN A 110	21.020	80.527	92.362	1.00	31.58	A C					
45	ATOM	35	CB	GLN A 110	22.316	80.366	93.166	1.00	31.78	A C					
	ATOM	36	CG	GLN A 110	22.739	81.623	93.930	1.00	31.66	A C					
	ATOM	37	CD	GLN A 110	21.805	81.951	95.086	1.00	31.74	A C					
	ATOM	38	OE1	GLN A 110	20.846	81.219	95.350	1.00	31.54	A O					
	ATOM	39	NE2	GLN A 110	22.080	83.056	95.781	1.00	29.00	A N					
50	ATOM	40	C	GLN A 110	21.264	81.503	91.227	1.00	30.70	A C					
	ATOM	41	O	GLN A 110	21.270	82.723	91.420	1.00	31.16	A O					
	ATOM	42	N	THR A 111	21.460	80.955	90.035	1.00	29.44	A N					
	ATOM	43	CA	THR A 111	21.744	81.765	88.869	1.00	27.54	A C					
	ATOM	44	CB	THR A 111	23.039	81.265	88.204	1.00	27.34	A C					
55	ATOM	45	OG1	THR A 111	23.548	82.284	87.345	1.00	32.97	A O					
	ATOM	46	CG2	THR A 111	22.788	80.003	87.406	1.00	23.37	A C					
	ATOM	47	C	THR A 111	20.605	81.800	87.845	1.00	25.96	A C					
	ATOM	48	O	THR A 111	20.731	82.431	86.795	1.00	25.95	A O					
	ATOM	49	N	VAL A 112	19.493	81.138	88.167	1.00	23.22	A N					
60	ATOM	50	CA	VAL A 112	18.326	81.078	87.283	1.00	19.66	A C					
	ATOM	51	CB	VAL A 112	17.671	79.684	87.324	1.00	15.21	A C					
	ATOM	52	CG1	VAL A 112	16.493	79.635	86.368	1.00	13.25	A C					
	ATOM	53	CG2	VAL A 112	18.690	78.623	86.995	1.00	14.22	A C					
	ATOM	54	C	VAL A 112	17.246	82.093	87.659	1.00	19.44	A C					
65	ATOM	55	O	VAL A 112	16.682	82.025	88.744	1.00	20.43	A O					
	ATOM	56	N	PRO A 113	16.935	83.040	86.759	1.00	18.82	A N					
	ATOM	57	CD	PRO A 113	17.532	83.235	85.430	1.00	17.83	A C					
	ATOM	58	CA	PRO A 113	15.904	84.044	87.047	1.00	18.11	A C					

	ATOM	59	CB	PRO	A	113	16.004	85.017	85.877	1.00	18.69	A	C
	ATOM	60	CG	PRO	A	113	17.300	84.681	85.183	1.00	18.08	A	C
	ATOM	61	C	PRO	A	113	14.504	83.434	87.144	1.00	20.59	A	C
5	ATOM	62	O	PRO	A	113	14.265	82.312	86.694	1.00	19.59	A	O
	ATOM	63	N	ASP	A	114	13.580	84.174	87.745	1.00	22.07	A	N
	ATOM	64	CA	ASP	A	114	12.210	83.703	87.871	1.00	23.17	A	C
	ATOM	65	CB	ASP	A	114	11.388	84.645	88.755	1.00	26.56	A	C
	ATOM	66	CG	ASP	A	114	11.725	84.525	90.228	1.00	30.50	A	C
10	ATOM	67	OD1	ASP	A	114	11.874	83.387	90.727	1.00	32.52	A	O
	ATOM	68	OD2	ASP	A	114	11.835	85.582	90.889	1.00	32.44	A	O
	ATOM	69	C	ASP	A	114	11.590	83.722	86.481	1.00	22.85	A	C
	ATOM	70	O	ASP	A	114	12.001	84.505	85.627	1.00	24.29	A	O
	ATOM	71	N	PHE	A	115	10.607	82.856	86.259	1.00	20.40	A	N
15	ATOM	72	CA	PHE	A	115	9.876	82.816	84.998	1.00	17.81	A	C
	ATOM	73	CB	PHE	A	115	10.757	82.309	83.831	1.00	15.01	A	C
	ATOM	74	CG	PHE	A	115	11.185	80.869	83.935	1.00	12.03	A	C
	ATOM	75	CD1	PHE	A	115	12.364	80.525	84.582	1.00	12.71	A	C
	ATOM	76	CD2	PHE	A	115	10.437	79.866	83.337	1.00	12.35	A	C
20	ATOM	77	CE1	PHE	A	115	12.793	79.201	84.631	1.00	13.24	A	C
	ATOM	78	CE2	PHE	A	115	10.856	78.534	83.380	1.00	14.87	A	C
	ATOM	79	CZ	PHE	A	115	12.038	78.201	84.030	1.00	12.54	A	C
	ATOM	80	C	PHE	A	115	8.620	81.969	85.196	1.00	18.88	A	C
	ATOM	81	O	PHE	A	115	8.567	81.112	86.090	1.00	17.41	A	O
25	ATOM	82	N	GLN	A	116	7.596	82.236	84.390	1.00	17.88	A	N
	ATOM	83	CA	GLN	A	116	6.337	81.517	84.502	1.00	17.51	A	C
	ATOM	84	CB	GLN	A	116	5.233	82.305	83.810	1.00	18.76	A	C
	ATOM	85	CG	GLN	A	116	5.038	83.678	84.434	1.00	22.33	A	C
	ATOM	86	CD	GLN	A	116	3.912	84.458	83.800	1.00	25.02	A	C
30	ATOM	87	OE1	GLN	A	116	4.101	85.107	82.771	1.00	25.28	A	O
	ATOM	88	NE2	GLN	A	116	2.730	84.406	84.414	1.00	25.70	A	N
	ATOM	89	C	GLN	A	116	6.414	80.110	83.950	1.00	17.07	A	C
	ATOM	90	O	GLN	A	116	6.900	79.884	82.846	1.00	18.18	A	O
	ATOM	91	N	ARG	A	117	5.932	79.158	84.736	1.00	17.06	A	N
35	ATOM	92	CA	ARG	A	117	5.959	77.772	84.329	1.00	17.71	A	C
	ATOM	93	CB	ARG	A	117	6.650	76.933	85.399	1.00	17.01	A	C
	ATOM	94	CG	ARG	A	117	8.155	77.135	85.433	1.00	19.15	A	C
	ATOM	95	CD	ARG	A	117	8.705	76.788	86.798	1.00	20.98	A	C
	ATOM	96	NE	ARG	A	117	10.160	76.669	86.799	1.00	21.96	A	N
40	ATOM	97	CZ	ARG	A	117	10.980	77.608	87.259	1.00	21.82	A	C
	ATOM	98	NH1	ARG	A	117	10.481	78.733	87.752	1.00	18.92	A	N
	ATOM	99	NH2	ARG	A	117	12.293	77.413	87.246	1.00	21.19	A	N
	ATOM	100	C	ARG	A	117	4.566	77.247	84.084	1.00	18.75	A	C
	ATOM	101	O	ARG	A	117	3.579	77.799	84.584	1.00	18.37	A	O
45	ATOM	102	N	VAL	A	118	4.480	76.184	83.296	1.00	18.74	A	N
	ATOM	103	CA	VAL	A	118	3.190	75.590	83.017	1.00	21.07	A	C
	ATOM	104	CB	VAL	A	118	2.958	75.389	81.486	1.00	21.53	A	C
	ATOM	105	CG1	VAL	A	118	4.236	75.645	80.720	1.00	22.68	A	C
	ATOM	106	CG2	VAL	A	118	2.417	73.991	81.203	1.00	19.94	A	C
50	ATOM	107	C	VAL	A	118	3.128	74.264	83.741	1.00	21.76	A	C
	ATOM	108	O	VAL	A	118	4.000	73.419	83.576	1.00	24.19	A	O
	ATOM	109	N	GLN	A	119	2.108	74.087	84.568	1.00	22.60	A	N
	ATOM	110	CA	GLN	A	119	1.970	72.839	85.292	1.00	23.93	A	C
	ATOM	111	CB	GLN	A	119	2.278	73.023	86.781	1.00	25.42	A	C
55	ATOM	112	CG	GLN	A	119	1.905	74.361	87.372	1.00	33.22	A	C
	ATOM	113	CD	GLN	A	119	2.072	74.369	88.887	1.00	38.34	A	C
	ATOM	114	OE1	GLN	A	119	1.164	73.975	89.626	1.00	38.45	A	O
	ATOM	115	NE2	GLN	A	119	3.239	74.809	89.355	1.00	36.19	A	N
	ATOM	116	C	GLN	A	119	0.589	72.252	85.110	1.00	22.72	A	C
60	ATOM	117	O	GLN	A	119	-0.394	72.970	84.926	1.00	21.62	A	O
	ATOM	118	N	ILE	A	120	0.540	70.928	85.146	1.00	21.37	A	N
	ATOM	119	CA	ILE	A	120	-0.688	70.180	84.973	1.00	20.11	A	C
	ATOM	120	CB	ILE	A	120	-0.478	69.028	83.968	1.00	16.83	A	C
	ATOM	121	CG2	ILE	A	120	-1.798	68.364	83.650	1.00	14.93	A	C
65	ATOM	122	CG1	ILE	A	120	0.216	69.559	82.709	1.00	15.64	A	C
	ATOM	123	CD1	ILE	A	120	-0.446	70.785	82.093	1.00	16.03	A	C
	ATOM	124	C	ILE	A	120	-1.084	69.596	86.315	1.00	22.42	A	C
	ATOM	125	O	ILE	A	120	-0.258	69.002	87.004	1.00	22.69	A	O
	ATOM	126	N	THR	A	121	-2.348	69.772	86.680	1.00	25.71	A	N

	ATOM	127	CA	THR	A	121	-2.870	69.252	87.935	1.00	28.11	A	C
	ATOM	128	CB	THR	A	121	-3.811	70.262	88.599	1.00	27.51	A	C
	ATOM	129	OG1	THR	A	121	-5.033	70.333	87.858	1.00	29.51	A	O
	ATOM	130	CG2	THR	A	121	-3.175	71.634	88.638	1.00	28.70	A	C
5	ATOM	131	C	THR	A	121	-3.643	67.970	87.655	1.00	30.61	A	C
	ATOM	132	O	THR	A	121	-4.013	67.705	86.515	1.00	31.64	A	O
	ATOM	133	N	GLY	A	122	-3.870	67.167	88.689	1.00	32.81	A	N
	ATOM	134	CA	GLY	A	122	-4.611	65.930	88.506	1.00	37.16	A	C
10	ATOM	135	C	GLY	A	122	-3.761	64.694	88.271	1.00	40.41	A	C
	ATOM	136	O	GLY	A	122	-2.560	64.790	88.002	1.00	41.15	A	O
	ATOM	137	N	ASP	A	123	-4.401	63.529	88.375	1.00	43.33	A	N
	ATOM	138	CA	ASP	A	123	-3.740	62.239	88.182	1.00	46.02	A	C
	ATOM	139	CB	ASP	A	123	-4.521	61.129	88.892	1.00	49.81	A	C
	ATOM	140	CG	ASP	A	123	-4.566	61.314	90.399	1.00	53.68	A	C
15	ATOM	141	OD1	ASP	A	123	-3.494	61.545	91.003	1.00	55.04	A	O
	ATOM	142	OD2	ASP	A	123	-5.675	61.224	90.978	1.00	56.30	A	O
	ATOM	143	C	ASP	A	123	-3.657	61.913	86.700	1.00	45.48	A	C
	ATOM	144	O	ASP	A	123	-4.626	62.103	85.965	1.00	46.84	A	O
20	ATOM	145	N	TYR	A	124	-2.508	61.410	86.264	1.00	44.80	A	N
	ATOM	146	CA	TYR	A	124	-2.328	61.073	84.857	1.00	45.92	A	C
	ATOM	147	CB	TYR	A	124	-0.836	61.002	84.521	1.00	42.76	A	C
	ATOM	148	CG	TYR	A	124	-0.259	62.335	84.111	1.00	39.54	A	C
	ATOM	149	CD1	TYR	A	124	0.339	63.172	85.051	1.00	39.20	A	C
25	ATOM	150	CE1	TYR	A	124	0.846	64.419	84.689	1.00	37.82	A	C
	ATOM	151	CD2	TYR	A	124	-0.336	62.775	82.793	1.00	37.10	A	C
	ATOM	152	CE2	TYR	A	124	0.168	64.021	82.421	1.00	36.43	A	C
	ATOM	153	CZ	TYR	A	124	0.757	64.838	83.374	1.00	35.72	A	C
	ATOM	154	OH	TYR	A	124	1.253	66.072	83.020	1.00	33.78	A	O
30	ATOM	155	C	TYR	A	124	-3.020	59.766	84.469	1.00	46.71	A	C
	ATOM	156	O	TYR	A	124	-2.610	58.699	84.975	1.00	48.42	A	O
	ATOM	157	OT	TYR	A	124	-3.973	59.831	83.660	1.00	48.02	A	O
	ATOM	158	CB	ASP	B	132	-2.865	49.114	79.287	1.00	54.68	B	C
	ATOM	159	CG	ASP	B	132	-2.872	49.637	77.856	1.00	56.72	B	C
35	ATOM	160	OD1	ASP	B	132	-2.864	50.876	77.676	1.00	56.22	B	O
	ATOM	161	OD2	ASP	B	132	-2.889	48.810	76.914	1.00	57.96	B	O
	ATOM	162	C	ASP	B	132	-0.435	49.597	79.646	1.00	51.45	B	C
	ATOM	163	O	ASP	B	132	0.555	49.473	78.922	1.00	50.84	B	O
	ATOM	164	N	ASP	B	132	-1.590	47.953	81.080	1.00	52.43	B	N
40	ATOM	165	CA	ASP	B	132	-1.511	48.518	79.697	1.00	52.66	B	C
	ATOM	166	N	PHE	B	133	-0.640	50.658	80.420	1.00	50.20	B	N
	ATOM	167	CA	PHE	B	133	0.316	51.754	80.484	1.00	47.84	B	C
	ATOM	168	CB	PHE	B	133	-0.240	52.891	81.348	1.00	46.26	B	C
	ATOM	169	CG	PHE	B	133	0.754	53.983	81.631	1.00	45.48	B	C
45	ATOM	170	CD1	PHE	B	133	0.906	54.480	82.922	1.00	43.53	B	C
	ATOM	171	CD2	PHE	B	133	1.543	54.512	80.606	1.00	44.77	B	C
	ATOM	172	CE1	PHE	B	133	1.827	55.489	83.195	1.00	42.52	B	C
	ATOM	173	CE2	PHE	B	133	2.468	55.522	80.864	1.00	44.35	B	C
	ATOM	174	CZ	PHE	B	133	2.611	56.012	82.165	1.00	44.20	B	C
50	ATOM	175	C	PHE	B	133	1.593	51.204	81.104	1.00	47.69	B	C
	ATOM	176	O	PHE	B	133	2.697	51.660	80.804	1.00	47.88	B	O
	ATOM	177	N	GLU	B	134	1.427	50.211	81.970	1.00	46.68	B	N
	ATOM	178	CA	GLU	B	134	2.552	49.581	82.640	1.00	45.74	B	C
	ATOM	179	CB	GLU	B	134	2.045	48.537	83.636	1.00	47.75	B	C
55	ATOM	180	CG	GLU	B	134	2.829	48.503	84.940	1.00	51.78	B	C
	ATOM	181	CD	GLU	B	134	3.195	47.093	85.369	1.00	54.05	B	C
	ATOM	182	OE1	GLU	B	134	2.605	46.131	84.825	1.00	55.53	B	O
	ATOM	183	OE2	GLU	B	134	4.071	46.948	86.250	1.00	54.68	B	O
	ATOM	184	C	GLU	B	134	3.479	48.919	81.626	1.00	43.72	B	C
60	ATOM	185	O	GLU	B	134	4.703	48.994	81.750	1.00	42.70	B	O
	ATOM	186	N	ILE	B	135	2.894	48.266	80.626	1.00	41.51	B	N
	ATOM	187	CA	ILE	B	135	3.691	47.603	79.608	1.00	38.50	B	C
	ATOM	188	CB	ILE	B	135	2.823	46.656	78.732	1.00	40.12	B	C
	ATOM	189	CG2	ILE	B	135	1.725	46.029	79.578	1.00	39.45	B	C
65	ATOM	190	CG1	ILE	B	135	2.215	47.419	77.554	1.00	42.13	B	C
	ATOM	191	CD1	ILE	B	135	2.986	47.257	76.248	1.00	43.88	B	C
	ATOM	192	C	ILE	B	135	4.360	48.653	78.732	1.00	36.01	B	C
	ATOM	193	O	ILE	B	135	5.419	48.411	78.157	1.00	36.79	B	O
	ATOM	194	N	VAL	B	136	3.738	49.822	78.635	1.00	33.14	B	N

	ATOM	195	CA	VAL	B	136	4.297	50.900	77.832	1.00	30.84	B	C
	ATOM	196	CB	VAL	B	136	3.277	52.046	77.631	1.00	29.03	B	C
	ATOM	197	CG1	VAL	B	136	3.960	53.248	77.000	1.00	28.49	B	C
5	ATOM	198	CG2	VAL	B	136	2.135	51.577	76.750	1.00	27.80	B	C
	ATOM	199	C	VAL	B	136	5.528	51.443	78.546	1.00	30.54	B	C
	ATOM	200	O	VAL	B	136	6.571	51.658	77.927	1.00	31.20	B	O
	ATOM	201	N	CYS	B	137	5.404	51.655	79.854	1.00	29.11	B	N
	ATOM	202	CA	CYS	B	137	6.505	52.173	80.661	1.00	26.93	B	C
10	ATOM	203	CB	CYS	B	137	6.024	52.462	82.081	1.00	26.91	B	C
	ATOM	204	SG	CYS	B	137	5.120	54.011	82.267	1.00	28.49	B	S
	ATOM	205	C	CYS	B	137	7.649	51.173	80.707	1.00	26.18	B	C
	ATOM	206	O	CYS	B	137	8.816	51.553	80.743	1.00	26.25	B	O
	ATOM	207	N	LYS	B	138	7.302	49.892	80.705	1.00	25.66	B	N
15	ATOM	208	CA	LYS	B	138	8.291	48.828	80.742	1.00	25.34	B	C
	ATOM	209	CB	LYS	B	138	7.603	47.483	80.967	1.00	27.33	B	C
	ATOM	210	CG	LYS	B	138	7.126	47.270	82.389	1.00	33.42	B	C
	ATOM	211	CD	LYS	B	138	6.682	45.835	82.599	1.00	37.42	B	C
	ATOM	212	CE	LYS	B	138	6.261	45.589	84.040	1.00	40.66	B	C
20	ATOM	213	NZ	LYS	B	138	6.843	44.321	84.562	1.00	42.40	B	N
	ATOM	214	C	LYS	B	138	9.099	48.776	79.455	1.00	23.06	B	C
	ATOM	215	O	LYS	B	138	10.302	48.526	79.485	1.00	22.88	B	O
	ATOM	216	N	GLY	B	139	8.430	49.012	78.329	1.00	21.77	B	N
	ATOM	217	CA	GLY	B	139	9.103	48.986	77.045	1.00	18.66	B	C
25	ATOM	218	C	GLY	B	139	10.071	50.143	76.912	1.00	18.79	B	C
	ATOM	219	O	GLY	B	139	11.208	49.963	76.471	1.00	18.11	B	O
	ATOM	220	N	LEU	B	140	9.622	51.335	77.301	1.00	18.89	B	N
	ATOM	221	CA	LEU	B	140	10.452	52.531	77.221	1.00	19.07	B	C
	ATOM	222	CB	LEU	B	140	9.633	53.769	77.605	1.00	19.60	B	C
30	ATOM	223	CG	LEU	B	140	8.578	54.202	76.568	1.00	21.05	B	C
	ATOM	224	CD1	LEU	B	140	7.797	55.395	77.091	1.00	18.84	B	C
	ATOM	225	CD2	LEU	B	140	9.257	54.554	75.251	1.00	19.35	B	C
	ATOM	226	C	LEU	B	140	11.666	52.386	78.132	1.00	18.95	B	C
	ATOM	227	O	LEU	B	140	12.771	52.809	77.793	1.00	17.60	B	O
35	ATOM	228	N	TYR	B	141	11.459	51.773	79.292	1.00	19.62	B	N
	ATOM	229	CA	TYR	B	141	12.550	51.561	80.237	1.00	18.34	B	C
	ATOM	230	CB	TYR	B	141	12.018	50.925	81.526	1.00	18.49	B	C
	ATOM	231	CG	TYR	B	141	13.097	50.296	82.374	1.00	20.16	B	C
	ATOM	232	CD1	TYR	B	141	13.278	48.916	82.390	1.00	20.40	B	C
40	ATOM	233	CE1	TYR	B	141	14.303	48.333	83.129	1.00	22.93	B	C
	ATOM	234	CD2	TYR	B	141	13.970	51.084	83.127	1.00	20.98	B	C
	ATOM	235	CE2	TYR	B	141	15.002	50.511	83.870	1.00	21.75	B	C
	ATOM	236	CZ	TYR	B	141	15.163	49.134	83.862	1.00	23.38	B	C
	ATOM	237	OH	TYR	B	141	16.199	48.550	84.558	1.00	24.45	B	O
45	ATOM	238	C	TYR	B	141	13.611	50.651	79.609	1.00	17.90	B	C
	ATOM	239	O	TYR	B	141	14.806	50.970	79.619	1.00	16.17	B	O
	ATOM	240	N	ARG	B	142	13.177	49.521	79.057	1.00	17.24	B	N
	ATOM	241	CA	ARG	B	142	14.112	48.582	78.445	1.00	18.38	B	C
	ATOM	242	CB	ARG	B	142	13.388	47.292	78.052	1.00	18.24	B	C
50	ATOM	243	CG	ARG	B	142	14.165	46.464	77.054	1.00	22.98	B	C
	ATOM	244	CD	ARG	B	142	13.842	44.981	77.106	1.00	23.45	B	C
	ATOM	245	NE	ARG	B	142	14.812	44.235	76.304	1.00	25.00	B	N
	ATOM	246	CZ	ARG	B	142	14.546	43.116	75.638	1.00	26.20	B	C
	ATOM	247	NH1	ARG	B	142	13.322	42.594	75.671	1.00	25.36	B	N
55	ATOM	248	NH2	ARG	B	142	15.506	42.526	74.927	1.00	22.16	B	N
	ATOM	249	C	ARG	B	142	14.820	49.180	77.229	1.00	18.77	B	C
	ATOM	250	O	ARG	B	142	15.986	48.884	76.977	1.00	19.74	B	O
	ATOM	251	N	ALA	B	143	14.123	50.030	76.479	1.00	18.77	B	N
	ATOM	252	CA	ALA	B	143	14.719	50.654	75.301	1.00	17.05	B	C
60	ATOM	253	CB	ALA	B	143	13.663	51.435	74.528	1.00	17.76	B	C
	ATOM	254	C	ALA	B	143	15.868	51.573	75.703	1.00	16.23	B	C
	ATOM	255	O	ALA	B	143	16.911	51.603	75.049	1.00	14.53	B	O
	ATOM	256	N	LEU	B	144	15.674	52.322	76.785	1.00	16.01	B	N
	ATOM	257	CA	LEU	B	144	16.710	53.229	77.277	1.00	15.45	B	C
65	ATOM	258	CB	LEU	B	144	16.128	54.162	78.342	1.00	15.13	B	C
	ATOM	259	CG	LEU	B	144	15.234	55.289	77.817	1.00	16.00	B	C
	ATOM	260	CD1	LEU	B	144	14.546	56.006	78.971	1.00	14.14	B	C
	ATOM	261	CD2	LEU	B	144	16.085	56.263	77.014	1.00	15.82	B	C
	ATOM	262	C	LEU	B	144	17.863	52.412	77.863	1.00	15.10	B	C

	ATOM	263	O	LEU	B	144	19.026	52.819	77.806	1.00	13.81	B	O
	ATOM	264	N	CYS	B	145	17.528	51.251	78.416	1.00	16.31	B	N
	ATOM	265	CA	CYS	B	145	18.526	50.362	78.999	1.00	20.19	B	C
	ATOM	266	CB	CYS	B	145	17.847	49.225	79.769	1.00	24.39	B	C
5	ATOM	267	SG	CYS	B	145	17.848	49.448	81.556	1.00	35.84	B	S
	ATOM	268	C	CYS	B	145	19.396	49.776	77.906	1.00	18.15	B	C
	ATOM	269	O	CYS	B	145	20.605	49.630	78.075	1.00	19.64	B	O
	ATOM	270	N	ILE	B	146	18.767	49.426	76.789	1.00	17.89	B	N
10	ATOM	271	CA	ILE	B	146	19.477	48.868	75.648	1.00	15.40	B	C
	ATOM	272	CB	ILE	B	146	18.498	48.484	74.523	1.00	15.67	B	C
	ATOM	273	CG2	ILE	B	146	19.241	48.319	73.205	1.00	16.61	B	C
	ATOM	274	CG1	ILE	B	146	17.777	47.190	74.895	1.00	13.90	B	C
	ATOM	275	CD1	ILE	B	146	16.497	46.962	74.124	1.00	14.78	B	C
	ATOM	276	C	ILE	B	146	20.488	49.882	75.117	1.00	15.58	B	C
15	ATOM	277	O	ILE	B	146	21.659	49.547	74.927	1.00	15.05	B	O
	ATOM	278	N	ARG	B	147	20.051	51.123	74.897	1.00	14.65	B	N
	ATOM	279	CA	ARG	B	147	20.959	52.144	74.381	1.00	13.48	B	C
	ATOM	280	CB	ARG	B	147	20.214	53.447	74.062	1.00	8.91	B	C
20	ATOM	281	CG	ARG	B	147	21.173	54.588	73.707	1.00	5.87	B	C
	ATOM	282	CD	ARG	B	147	20.502	55.733	72.960	1.00	8.19	B	C
	ATOM	283	NE	ARG	B	147	21.463	56.777	72.596	1.00	10.82	B	N
	ATOM	284	CZ	ARG	B	147	22.234	56.754	71.506	1.00	12.80	B	C
	ATOM	285	NH1	ARG	B	147	22.163	55.728	70.659	1.00	9.66	B	N
	ATOM	286	NH2	ARG	B	147	23.075	57.759	71.258	1.00	7.70	B	N
25	ATOM	287	C	ARG	B	147	22.113	52.450	75.335	1.00	14.77	B	C
	ATOM	288	O	ARG	B	147	23.265	52.576	74.907	1.00	16.74	B	O
	ATOM	289	N	GLU	B	148	21.805	52.581	76.623	1.00	15.15	B	N
	ATOM	290	CA	GLU	B	148	22.827	52.871	77.619	1.00	15.71	B	C
30	ATOM	291	CB	GLU	B	148	22.215	52.951	79.022	1.00	17.06	B	C
	ATOM	292	CG	GLU	B	148	23.267	53.163	80.126	1.00	17.79	B	C
	ATOM	293	CD	GLU	B	148	22.716	52.962	81.526	1.00	18.45	B	C
	ATOM	294	OE1	GLU	B	148	22.842	53.893	82.346	1.00	18.52	B	O
	ATOM	295	OE2	GLU	B	148	22.160	51.879	81.804	1.00	19.12	B	O
	ATOM	296	C	GLU	B	148	23.899	51.791	77.616	1.00	15.49	B	C
35	ATOM	297	O	GLU	B	148	25.089	52.085	77.703	1.00	15.86	B	O
	ATOM	298	N	LYS	B	149	23.464	50.538	77.529	1.00	15.99	B	N
	ATOM	299	CA	LYS	B	149	24.375	49.401	77.525	1.00	17.44	B	C
	ATOM	300	CB	LYS	B	149	23.566	48.100	77.531	1.00	16.93	B	C
	ATOM	301	CG	LYS	B	149	24.422	46.836	77.483	1.00	19.18	B	C
40	ATOM	302	CD	LYS	B	149	23.569	45.578	77.495	1.00	17.99	B	C
	ATOM	303	CE	LYS	B	149	22.720	45.479	76.226	1.00	22.48	B	C
	ATOM	304	NZ	LYS	B	149	21.866	44.252	76.164	1.00	21.41	B	N
	ATOM	305	C	LYS	B	149	25.328	49.418	76.325	1.00	18.31	B	C
	ATOM	306	O	LYS	B	149	26.543	49.262	76.478	1.00	18.19	B	O
45	ATOM	307	N	TYR	B	150	24.772	49.616	75.132	1.00	17.82	B	N
	ATOM	308	CA	TYR	B	150	25.565	49.641	73.913	1.00	16.69	B	C
	ATOM	309	CB	TYR	B	150	24.639	49.566	72.696	1.00	19.80	B	C
	ATOM	310	CG	TYR	B	150	24.021	48.197	72.513	1.00	20.86	B	C
	ATOM	311	CD1	TYR	B	150	24.598	47.259	71.666	1.00	24.27	B	C
50	ATOM	312	CE1	TYR	B	150	24.067	45.969	71.546	1.00	25.37	B	C
	ATOM	313	CD2	TYR	B	150	22.893	47.817	73.232	1.00	23.54	B	C
	ATOM	314	CE2	TYR	B	150	22.355	46.534	73.119	1.00	23.51	B	C
	ATOM	315	CZ	TYR	B	150	22.950	45.618	72.279	1.00	22.67	B	C
	ATOM	316	OH	TYR	B	150	22.446	44.344	72.191	1.00	21.08	B	O
55	ATOM	317	C	TYR	B	150	26.473	50.862	73.825	1.00	16.80	B	C
	ATOM	318	O	TYR	B	150	27.547	50.801	73.224	1.00	14.63	B	O
	ATOM	319	N	MET	B	151	26.057	51.970	74.433	1.00	16.87	B	N
	ATOM	320	CA	MET	B	151	26.874	53.179	74.410	1.00	17.39	B	C
	ATOM	321	CB	MET	B	151	26.057	54.391	74.874	1.00	16.52	B	C
60	ATOM	322	CG	MET	B	151	25.077	54.944	73.836	1.00	17.79	B	C
	ATOM	323	SD	MET	B	151	25.780	55.236	72.170	1.00	16.08	B	S
	ATOM	324	CE	MET	B	151	25.228	53.764	71.319	1.00	13.16	B	C
	ATOM	325	C	MET	B	151	28.105	53.020	75.302	1.00	19.53	B	C
	ATOM	326	O	MET	B	151	29.229	53.285	74.877	1.00	21.79	B	O
65	ATOM	327	N	LEU	B	152	27.895	52.581	76.539	1.00	20.21	B	N
	ATOM	328	CA	LEU	B	152	28.999	52.407	77.482	1.00	21.62	B	C
	ATOM	329	CB	LEU	B	152	28.456	52.052	78.868	1.00	23.45	B	C
	ATOM	330	CG	LEU	B	152	27.496	53.056	79.517	1.00	24.76	B	C

	ATOM	331	CD1	LEU	B	152	27.213	52.639	80.957	1.00	25.95	B	C
	ATOM	332	CD2	LEU	B	152	28.100	54.453	79.470	1.00	24.56	B	C
	ATOM	333	C	LEU	B	152	29.973	51.329	77.027	1.00	20.64	B	C
5	ATOM	334	O	LEU	B	152	31.187	51.478	77.157	1.00	20.04	B	O
	ATOM	335	N	LYS	B	153	29.429	50.249	76.483	1.00	20.07	B	N
	ATOM	336	CA	LYS	B	153	30.235	49.134	76.013	1.00	20.78	B	C
	ATOM	337	CB	LYS	B	153	29.315	47.981	75.617	1.00	23.04	B	C
	ATOM	338	CG	LYS	B	153	30.047	46.709	75.266	1.00	28.86	B	C
10	ATOM	339	CD	LYS	B	153	29.114	45.693	74.629	1.00	32.79	B	C
	ATOM	340	CE	LYS	B	153	27.876	45.444	75.479	1.00	33.83	B	C
	ATOM	341	NZ	LYS	B	153	26.761	44.883	74.659	1.00	39.07	B	N
	ATOM	342	C	LYS	B	153	31.149	49.492	74.842	1.00	20.94	B	C
	ATOM	343	O	LYS	B	153	32.126	48.789	74.581	1.00	21.72	B	O
15	ATOM	344	N	SER	B	154	30.839	50.577	74.137	1.00	20.20	B	N
	ATOM	345	CA	SER	B	154	31.643	50.993	72.990	1.00	19.86	B	C
	ATOM	346	CB	SER	B	154	30.777	51.096	71.727	1.00	19.37	B	C
	ATOM	347	OG	SER	B	154	29.712	52.017	71.899	1.00	20.98	B	O
	ATOM	348	C	SER	B	154	32.318	52.326	73.247	1.00	19.93	B	C
20	ATOM	349	O	SER	B	154	32.841	52.952	72.329	1.00	20.80	B	O
	ATOM	350	N	PHE	B	155	32.299	52.755	74.502	1.00	18.94	B	N
	ATOM	351	CA	PHE	B	155	32.918	54.008	74.896	1.00	17.68	B	C
	ATOM	352	CB	PHE	B	155	34.423	53.933	74.666	1.00	21.11	B	C
	ATOM	353	CG	PHE	B	155	35.097	52.895	75.512	1.00	22.85	B	C
25	ATOM	354	CD1	PHE	B	155	35.565	53.215	76.783	1.00	23.41	B	C
	ATOM	355	CD2	PHE	B	155	35.204	51.581	75.066	1.00	23.57	B	C
	ATOM	356	CE1	PHE	B	155	36.128	52.238	77.609	1.00	24.33	B	C
	ATOM	357	CE2	PHE	B	155	35.765	50.594	75.882	1.00	25.04	B	C
	ATOM	358	CZ	PHE	B	155	36.227	50.927	77.160	1.00	24.26	B	C
30	ATOM	359	C	PHE	B	155	32.333	55.223	74.201	1.00	18.22	B	C
	ATOM	360	O	PHE	B	155	33.047	56.170	73.861	1.00	17.18	B	O
	ATOM	361	N	GLN	B	156	31.023	55.190	73.993	1.00	16.37	B	N
	ATOM	362	CA	GLN	B	156	30.335	56.307	73.374	1.00	16.82	B	C
	ATOM	363	CB	GLN	B	156	29.456	55.816	72.222	1.00	16.29	B	C
35	ATOM	364	CG	GLN	B	156	30.299	55.358	71.022	1.00	14.15	B	C
	ATOM	365	CD	GLN	B	156	29.478	55.091	69.785	1.00	12.40	B	C
	ATOM	366	OE1	GLN	B	156	28.850	54.037	69.654	1.00	12.04	B	O
	ATOM	367	NE2	GLN	B	156	29.478	56.043	68.863	1.00	9.98	B	N
	ATOM	368	C	GLN	B	156	29.526	56.977	74.477	1.00	17.47	B	C
40	ATOM	369	O	GLN	B	156	29.420	56.435	75.577	1.00	18.51	B	O
	ATOM	370	N	ARG	B	157	28.959	58.144	74.194	1.00	16.71	B	N
	ATOM	371	CA	ARG	B	157	28.228	58.894	75.210	1.00	16.26	B	C
	ATOM	372	CB	ARG	B	157	28.407	60.392	74.935	1.00	14.80	B	C
	ATOM	373	CG	ARG	B	157	29.872	60.792	74.712	1.00	16.45	B	C
45	ATOM	374	CD	ARG	B	157	30.032	62.229	74.220	1.00	17.62	B	C
	ATOM	375	NE	ARG	B	157	29.535	62.408	72.854	1.00	18.86	B	N
	ATOM	376	CZ	ARG	B	157	29.579	63.555	72.177	1.00	17.11	B	C
	ATOM	377	NH1	ARG	B	157	29.099	63.616	70.940	1.00	14.93	B	N
	ATOM	378	NH2	ARG	B	157	30.107	64.639	72.726	1.00	14.55	B	N
50	ATOM	379	C	ARG	B	157	26.748	58.591	75.462	1.00	17.40	B	C
	ATOM	380	O	ARG	B	157	26.008	58.200	74.558	1.00	17.95	B	O
	ATOM	381	N	PHE	B	158	26.347	58.754	76.724	1.00	17.59	B	N
	ATOM	382	CA	PHE	B	158	24.962	58.580	77.185	1.00	17.21	B	C
	ATOM	383	CB	PHE	B	158	24.683	57.151	77.626	1.00	15.80	B	C
55	ATOM	384	CG	PHE	B	158	23.218	56.862	77.847	1.00	16.41	B	C
	ATOM	385	CD1	PHE	B	158	22.684	56.831	79.133	1.00	14.70	B	C
	ATOM	386	CD2	PHE	B	158	22.372	56.622	76.769	1.00	14.38	B	C
	ATOM	387	CE1	PHE	B	158	21.331	56.566	79.346	1.00	13.05	B	C
	ATOM	388	CE2	PHE	B	158	21.014	56.354	76.972	1.00	16.49	B	C
60	ATOM	389	CZ	PHE	B	158	20.494	56.327	78.267	1.00	15.92	B	C
	ATOM	390	C	PHE	B	158	24.786	59.532	78.373	1.00	17.97	B	C
	ATOM	391	O	PHE	B	158	25.557	59.483	79.327	1.00	18.43	B	O
	ATOM	392	N	PRO	B	159	23.764	60.405	78.330	1.00	17.84	B	N
	ATOM	393	CD	PRO	B	159	22.757	60.487	77.261	1.00	16.45	B	C
65	ATOM	394	CA	PRO	B	159	23.497	61.378	79.396	1.00	18.34	B	C
	ATOM	395	CB	PRO	B	159	22.232	62.093	78.926	1.00	17.77	B	C
	ATOM	396	CG	PRO	B	159	21.611	61.149	77.943	1.00	17.82	B	C
	ATOM	397	C	PRO	B	159	23.339	60.796	80.794	1.00	18.75	B	C
	ATOM	398	O	PRO	B	159	22.885	59.666	80.962	1.00	20.43	B	O

	ATOM	399	N	LYS	B	160	23.707	61.593	81.793	1.00	19.29	B	N
	ATOM	400	CA	LYS	B	160	23.624	61.181	83.191	1.00	20.33	B	C
	ATOM	401	CB	LYS	B	160	24.450	62.128	84.069	1.00	20.98	B	C
	ATOM	402	CG	LYS	B	160	25.931	61.797	84.105	1.00	24.43	B	C
5	ATOM	403	CD	LYS	B	160	26.775	62.946	84.663	1.00	26.73	B	C
	ATOM	404	CE	LYS	B	160	26.326	64.308	84.137	1.00	31.09	B	C
	ATOM	405	NZ	LYS	B	160	26.960	64.664	82.831	1.00	33.29	B	N
	ATOM	406	C	LYS	B	160	22.207	61.105	83.748	1.00	18.68	B	C
	ATOM	407	O	LYS	B	160	21.833	60.096	84.345	1.00	17.83	B	O
10	ATOM	408	N	THR	B	161	21.405	62.148	83.545	1.00	19.18	B	N
	ATOM	409	CA	THR	B	161	20.067	62.121	84.120	1.00	20.29	B	C
	ATOM	410	CB	THR	B	161	19.286	63.436	83.871	1.00	20.52	B	C
	ATOM	411	OG1	THR	B	161	18.299	63.235	82.861	1.00	28.20	B	O
	ATOM	412	CG2	THR	B	161	20.223	64.550	83.489	1.00	18.47	B	C
15	ATOM	413	C	THR	B	161	19.226	60.905	83.754	1.00	19.85	B	C
	ATOM	414	O	THR	B	161	18.554	60.352	84.619	1.00	21.50	B	O
	ATOM	415	N	PRO	B	162	19.236	60.465	82.482	1.00	19.73	B	N
	ATOM	416	CD	PRO	B	162	19.891	60.980	81.269	1.00	19.15	B	C
20	ATOM	417	CA	PRO	B	162	18.417	59.278	82.194	1.00	18.82	B	C
	ATOM	418	CB	PRO	B	162	18.552	59.094	80.680	1.00	17.22	B	C
	ATOM	419	CG	PRO	B	162	19.059	60.389	80.172	1.00	19.04	B	C
	ATOM	420	C	PRO	B	162	18.954	58.062	82.964	1.00	18.32	B	C
	ATOM	421	O	PRO	B	162	18.202	57.181	83.361	1.00	18.39	B	O
	ATOM	422	N	SER	B	163	20.266	58.024	83.165	1.00	20.41	B	N
25	ATOM	423	CA	SER	B	163	20.895	56.923	83.884	1.00	22.04	B	C
	ATOM	424	CB	SER	B	163	22.415	57.055	83.814	1.00	23.35	B	C
	ATOM	425	OG	SER	B	163	22.888	56.726	82.514	1.00	24.35	B	O
	ATOM	426	C	SER	B	163	20.435	56.936	85.336	1.00	21.09	B	C
	ATOM	427	O	SER	B	163	20.087	55.897	85.902	1.00	21.53	B	O
30	ATOM	428	N	LYS	B	164	20.431	58.123	85.929	1.00	20.50	B	N
	ATOM	429	CA	LYS	B	164	19.993	58.277	87.307	1.00	18.75	B	C
	ATOM	430	CB	LYS	B	164	19.973	59.753	87.689	1.00	17.87	B	C
	ATOM	431	CG	LYS	B	164	21.348	60.309	87.973	1.00	18.05	B	C
	ATOM	432	CD	LYS	B	164	21.285	61.769	88.345	1.00	19.51	B	C
35	ATOM	433	CE	LYS	B	164	22.676	62.340	88.468	1.00	21.18	B	C
	ATOM	434	NZ	LYS	B	164	22.677	63.808	88.236	1.00	26.53	B	N
	ATOM	435	C	LYS	B	164	18.605	57.674	87.487	1.00	19.31	B	C
	ATOM	436	O	LYS	B	164	18.359	56.958	88.456	1.00	19.08	B	O
	ATOM	437	N	TYR	B	165	17.702	57.943	86.550	1.00	17.98	B	N
40	ATOM	438	CA	TYR	B	165	16.350	57.404	86.648	1.00	18.67	B	C
	ATOM	439	CB	TYR	B	165	15.430	58.074	85.627	1.00	17.40	B	C
	ATOM	440	CG	TYR	B	165	14.836	59.366	86.122	1.00	17.32	B	C
	ATOM	441	CD1	TYR	B	165	13.653	59.375	86.858	1.00	17.76	B	C
	ATOM	442	CE1	TYR	B	165	13.111	60.566	87.333	1.00	18.31	B	C
45	ATOM	443	CD2	TYR	B	165	15.463	60.581	85.870	1.00	17.37	B	C
	ATOM	444	CE2	TYR	B	165	14.930	61.777	86.340	1.00	19.42	B	C
	ATOM	445	CZ	TYR	B	165	13.758	61.761	87.069	1.00	19.40	B	C
	ATOM	446	OH	TYR	B	165	13.243	62.943	87.545	1.00	22.54	B	O
	ATOM	447	C	TYR	B	165	16.312	55.895	86.448	1.00	19.97	B	C
50	ATOM	448	O	TYR	B	165	15.466	55.209	87.024	1.00	19.75	B	O
	ATOM	449	N	LEU	B	166	17.225	55.378	85.629	1.00	21.86	B	N
	ATOM	450	CA	LEU	B	166	17.263	53.943	85.366	1.00	22.77	B	C
	ATOM	451	CB	LEU	B	166	18.202	53.635	84.191	1.00	23.94	B	C
	ATOM	452	CG	LEU	B	166	17.775	54.073	82.776	1.00	23.15	B	C
55	ATOM	453	CD1	LEU	B	166	18.893	53.753	81.791	1.00	20.70	B	C
	ATOM	454	CD2	LEU	B	166	16.488	53.370	82.360	1.00	19.92	B	C
	ATOM	455	C	LEU	B	166	17.720	53.205	86.623	1.00	23.31	B	C
	ATOM	456	O	LEU	B	166	17.152	52.174	86.986	1.00	23.77	B	O
	ATOM	457	N	ARG	B	167	18.741	53.739	87.286	1.00	22.80	B	N
60	ATOM	458	CA	ARG	B	167	19.247	53.126	88.509	1.00	23.49	B	C
	ATOM	459	CB	ARG	B	167	20.459	53.900	89.029	1.00	21.90	B	C
	ATOM	460	CG	ARG	B	167	21.703	53.815	88.149	1.00	20.65	B	C
	ATOM	461	CD	ARG	B	167	22.136	52.377	87.884	1.00	23.03	B	C
	ATOM	462	NE	ARG	B	167	21.423	51.795	86.746	1.00	26.39	B	N
65	ATOM	463	CZ	ARG	B	167	21.648	52.112	85.470	1.00	26.04	B	C
	ATOM	464	NH1	ARG	B	167	22.574	53.010	85.152	1.00	24.54	B	N
	ATOM	465	NH2	ARG	B	167	20.930	51.547	84.506	1.00	24.81	B	N
	ATOM	466	C	ARG	B	167	18.138	53.112	89.569	1.00	24.85	B	C

	ATOM	467	O	ARG B 167	17.939	52.107	90.252	1.00	25.27	B	O
	ATOM	468	N	SER B 168	17.410	54.222	89.683	1.00	25.45	B	N
	ATOM	469	CA	SER B 168	16.311	54.347	90.643	1.00	27.29	B	C
5	ATOM	470	CB	SER B 168	15.667	55.728	90.554	1.00	26.48	B	C
	ATOM	471	OG	SER B 168	16.650	56.730	90.402	1.00	32.86	B	O
	ATOM	472	C	SER B 168	15.232	53.313	90.398	1.00	27.47	B	C
	ATOM	473	O	SER B 168	14.756	52.659	91.327	1.00	27.11	B	O
	ATOM	474	N	ILE B 169	14.832	53.182	89.139	1.00	28.38	B	N
10	ATOM	475	CA	ILE B 169	13.795	52.231	88.785	1.00	27.72	B	C
	ATOM	476	CB	ILE B 169	13.468	52.310	87.280	1.00	25.93	B	C
	ATOM	477	CG2	ILE B 169	12.542	51.168	86.885	1.00	23.19	B	C
	ATOM	478	CG1	ILE B 169	12.837	53.671	86.968	1.00	26.15	B	C
	ATOM	479	CD1	ILE B 169	12.268	53.802	85.569	1.00	27.08	B	C
15	ATOM	480	C	ILE B 169	14.252	50.828	89.137	1.00	28.74	B	C
	ATOM	481	O	ILE B 169	13.444	49.973	89.498	1.00	29.95	B	O
	ATOM	482	N	GLU B 170	15.558	50.610	89.041	1.00	31.23	B	N
	ATOM	483	CA	GLU B 170	16.157	49.313	89.324	1.00	34.23	B	C
	ATOM	484	CB	GLU B 170	17.567	49.259	88.750	1.00	33.88	B	C
20	ATOM	485	CG	GLU B 170	17.630	48.821	87.316	1.00	36.24	B	C
	ATOM	486	CD	GLU B 170	18.890	49.300	86.634	1.00	38.16	B	C
	ATOM	487	OE1	GLU B 170	18.856	49.518	85.400	1.00	39.69	B	O
	ATOM	488	OE2	GLU B 170	19.913	49.458	87.336	1.00	38.19	B	O
	ATOM	489	C	GLU B 170	16.220	49.007	90.813	1.00	36.02	B	C
25	ATOM	490	O	GLU B 170	16.153	47.847	91.222	1.00	36.52	B	O
	ATOM	491	N	GLY B 171	16.357	50.051	91.620	1.00	37.33	B	N
	ATOM	492	CA	GLY B 171	16.434	49.863	93.054	1.00	39.54	B	C
	ATOM	493	C	GLY B 171	17.866	49.968	93.537	1.00	41.82	B	C
	ATOM	494	O	GLY B 171	18.183	49.583	94.663	1.00	42.71	B	O
30	ATOM	495	N	THR B 172	18.739	50.484	92.682	1.00	42.71	B	N
	ATOM	496	CA	THR B 172	20.139	50.643	93.043	1.00	45.37	B	C
	ATOM	497	CB	THR B 172	21.073	49.941	92.028	1.00	45.41	B	C
	ATOM	498	OG1	THR B 172	21.815	50.924	91.299	1.00	47.34	B	O
	ATOM	499	CG2	THR B 172	20.272	49.090	91.057	1.00	46.75	B	C
35	ATOM	500	C	THR B 172	20.493	52.123	93.112	1.00	47.04	B	C
	ATOM	501	O	THR B 172	19.754	52.968	92.612	1.00	47.21	B	O
	ATOM	502	N	ALA B 173	21.621	52.431	93.744	1.00	49.54	B	N
	ATOM	503	CA	ALA B 173	22.068	53.812	93.883	1.00	51.57	B	C
	ATOM	504	CB	ALA B 173	22.864	53.978	95.174	1.00	51.58	B	C
40	ATOM	505	C	ALA B 173	22.918	54.210	92.684	1.00	52.57	B	C
	ATOM	506	O	ALA B 173	23.698	53.406	92.168	1.00	53.52	B	O
	ATOM	507	N	TRP B 174	22.767	55.453	92.242	1.00	53.52	B	N
	ATOM	508	CA	TRP B 174	23.520	55.932	91.093	1.00	53.99	B	C
	ATOM	509	CB	TRP B 174	22.887	57.208	90.530	1.00	52.12	B	C
45	ATOM	510	CG	TRP B 174	23.591	57.719	89.307	1.00	49.85	B	C
	ATOM	511	CD2	TRP B 174	24.420	58.883	89.222	1.00	49.49	B	C
	ATOM	512	CE2	TRP B 174	24.897	58.961	87.893	1.00	49.30	B	C
	ATOM	513	CE3	TRP B 174	24.809	59.871	90.142	1.00	48.10	B	C
	ATOM	514	CD1	TRP B 174	23.596	57.153	88.061	1.00	48.91	B	C
50	ATOM	515	NE1	TRP B 174	24.377	57.892	87.208	1.00	48.19	B	N
	ATOM	516	CZ2	TRP B 174	25.744	59.989	87.458	1.00	49.40	B	C
	ATOM	517	CZ3	TRP B 174	25.652	60.893	89.711	1.00	48.15	B	C
	ATOM	518	CH2	TRP B 174	26.110	60.943	88.378	1.00	49.22	B	C
	ATOM	519	C	TRP B 174	24.986	56.188	91.417	1.00	55.05	B	C
55	ATOM	520	O	TRP B 174	25.314	56.912	92.360	1.00	55.49	B	O
	ATOM	521	N	LYS B 175	25.858	55.588	90.611	1.00	56.49	B	N
	ATOM	522	CA	LYS B 175	27.304	55.717	90.765	1.00	57.78	B	C
	ATOM	523	CB	LYS B 175	27.995	54.485	90.182	1.00	59.83	B	C
	ATOM	524	CG	LYS B 175	27.274	53.882	88.978	1.00	60.69	B	C
60	ATOM	525	CD	LYS B 175	27.882	52.541	88.586	1.00	62.65	B	C
	ATOM	526	CE	LYS B 175	27.919	51.568	89.770	1.00	64.68	B	C
	ATOM	527	NZ	LYS B 175	29.299	51.382	90.320	1.00	64.54	B	N
	ATOM	528	C	LYS B 175	27.837	56.967	90.067	1.00	57.66	B	C
	ATOM	529	O	LYS B 175	27.415	58.085	90.367	1.00	57.95	B	O
65	ATOM	530	N	ALA B 176	28.773	56.762	89.142	1.00	57.24	B	N
	ATOM	531	CA	ALA B 176	29.387	57.845	88.378	1.00	57.33	B	C
	ATOM	532	CB	ALA B 176	29.824	58.972	89.308	1.00	56.94	B	C
	ATOM	533	C	ALA B 176	30.590	57.312	87.608	1.00	57.92	B	C
	ATOM	534	O	ALA B 176	31.461	58.079	87.191	1.00	58.58	B	O

	ATOM	535	N	ASN	B	177	30.634	55.994	87.426	1.00	58.56	B	N
	ATOM	536	CA	ASN	B	177	31.728	55.339	86.707	1.00	58.50	B	C
	ATOM	537	CB	ASN	B	177	31.330	53.905	86.341	1.00	59.01	B	C
	ATOM	538	CG	ASN	B	177	30.179	53.848	85.347	1.00	60.66	B	C
5	ATOM	539	OD1	ASN	B	177	29.329	54.738	85.312	1.00	62.39	B	O
	ATOM	540	ND2	ASN	B	177	30.148	52.797	84.533	1.00	60.76	B	N
	ATOM	541	C	ASN	B	177	32.126	56.098	85.440	1.00	57.25	B	C
	ATOM	542	O	ASN	B	177	31.302	56.317	84.548	1.00	56.65	B	O
	ATOM	543	N	GLU	B	178	33.391	56.499	85.366	1.00	56.05	B	N
10	ATOM	544	CA	GLU	B	178	33.886	57.224	84.202	1.00	56.23	B	C
	ATOM	545	CB	GLU	B	178	34.582	58.514	84.647	1.00	58.12	B	C
	ATOM	546	CG	GLU	B	178	33.626	59.587	85.170	1.00	61.10	B	C
	ATOM	547	CD	GLU	B	178	32.652	60.098	84.106	1.00	62.71	B	C
	ATOM	548	OE1	GLU	B	178	31.845	59.294	83.588	1.00	63.07	B	O
15	ATOM	549	OE2	GLU	B	178	32.691	61.309	83.791	1.00	63.95	B	O
	ATOM	550	C	GLU	B	178	34.840	56.368	83.359	1.00	54.59	B	C
	ATOM	551	O	GLU	B	178	35.547	56.877	82.482	1.00	54.43	B	O
	ATOM	552	N	SER	B	179	34.841	55.063	83.623	1.00	51.87	B	N
	ATOM	553	CA	SER	B	179	35.696	54.122	82.904	1.00	48.99	B	C
20	ATOM	554	CB	SER	B	179	35.706	52.771	83.625	1.00	48.53	B	C
	ATOM	555	OG	SER	B	179	34.618	52.659	84.524	1.00	47.69	B	O
	ATOM	556	C	SER	B	179	35.274	53.910	81.447	1.00	46.90	B	C
	ATOM	557	O	SER	B	179	36.120	53.653	80.587	1.00	46.60	B	O
	ATOM	558	N	SER	B	180	33.972	54.013	81.178	1.00	44.45	B	N
25	ATOM	559	CA	SER	B	180	33.443	53.822	79.828	1.00	42.93	B	C
	ATOM	560	CB	SER	B	180	32.096	53.102	79.887	1.00	42.80	B	C
	ATOM	561	OG	SER	B	180	32.003	52.301	81.052	1.00	43.39	B	O
	ATOM	562	C	SER	B	180	33.280	55.145	79.092	1.00	41.73	B	C
	ATOM	563	O	SER	B	180	32.531	55.245	78.124	1.00	41.39	B	O
30	ATOM	564	N	TYR	B	181	33.994	56.156	79.566	1.00	40.93	B	N
	ATOM	565	CA	TYR	B	181	33.955	57.485	78.981	1.00	40.80	B	C
	ATOM	566	CB	TYR	B	181	34.483	58.498	79.996	1.00	45.50	B	C
	ATOM	567	CG	TYR	B	181	33.561	59.660	80.269	1.00	51.16	B	C
	ATOM	568	CD1	TYR	B	181	33.984	60.974	80.053	1.00	53.29	B	C
35	ATOM	569	CE1	TYR	B	181	33.144	62.058	80.318	1.00	56.64	B	C
	ATOM	570	CD2	TYR	B	181	32.272	59.453	80.758	1.00	53.85	B	C
	ATOM	571	CE2	TYR	B	181	31.420	60.532	81.028	1.00	56.96	B	C
	ATOM	572	CZ	TYR	B	181	31.863	61.830	80.807	1.00	57.90	B	C
	ATOM	573	OH	TYR	B	181	31.026	62.897	81.073	1.00	60.39	B	O
40	ATOM	574	C	TYR	B	181	34.825	57.525	77.730	1.00	38.49	B	C
	ATOM	575	O	TYR	B	181	35.936	56.998	77.730	1.00	37.67	B	O
	ATOM	576	N	PRO	B	182	34.330	58.141	76.640	1.00	36.36	B	N
	ATOM	577	CD	PRO	B	182	33.014	58.782	76.472	1.00	34.83	B	C
	ATOM	578	CA	PRO	B	182	35.137	58.208	75.415	1.00	35.48	B	C
45	ATOM	579	CB	PRO	B	182	34.238	58.947	74.420	1.00	34.19	B	C
	ATOM	580	CG	PRO	B	182	33.196	59.620	75.248	1.00	33.53	B	C
	ATOM	581	C	PRO	B	182	36.436	58.958	75.689	1.00	35.13	B	C
	ATOM	582	O	PRO	B	182	36.478	59.811	76.573	1.00	37.07	B	O
	ATOM	583	N	VAL	B	183	37.493	58.636	74.946	1.00	33.36	B	N
50	ATOM	584	CA	VAL	B	183	38.783	59.291	75.137	1.00	31.61	B	C
	ATOM	585	CB	VAL	B	183	39.895	58.252	75.394	1.00	31.89	B	C
	ATOM	586	CG1	VAL	B	183	41.176	58.947	75.810	1.00	31.88	B	C
	ATOM	587	CG2	VAL	B	183	39.456	57.285	76.462	1.00	31.61	B	C
	ATOM	588	C	VAL	B	183	39.193	60.158	73.949	1.00	31.32	B	C
55	ATOM	589	O	VAL	B	183	39.682	59.656	72.942	1.00	30.01	B	O
	ATOM	590	N	PHE	B	184	38.987	61.464	74.074	1.00	32.43	B	N
	ATOM	591	CA	PHE	B	184	39.347	62.403	73.022	1.00	34.54	B	C
	ATOM	592	CB	PHE	B	184	38.494	63.668	73.122	1.00	39.04	B	C
	ATOM	593	CG	PHE	B	184	37.043	63.446	72.808	1.00	43.43	B	C
60	ATOM	594	CD1	PHE	B	184	36.483	63.963	71.642	1.00	45.36	B	C
	ATOM	595	CD2	PHE	B	184	36.233	62.717	73.676	1.00	44.81	B	C
	ATOM	596	CE1	PHE	B	184	35.132	63.756	71.344	1.00	47.03	B	C
	ATOM	597	CE2	PHE	B	184	34.883	62.503	73.389	1.00	46.24	B	C
	ATOM	598	CZ	PHE	B	184	34.332	63.025	72.220	1.00	46.73	B	C
65	ATOM	599	C	PHE	B	184	40.809	62.757	73.218	1.00	33.87	B	C
	ATOM	600	O	PHE	B	184	41.251	62.937	74.349	1.00	34.29	B	O
	ATOM	601	N	THR	B	185	41.573	62.848	72.137	1.00	33.56	B	N
	ATOM	602	CA	THR	B	185	42.977	63.179	72.302	1.00	33.95	B	C

	ATOM	603	CB	THR	B	185	43.783	62.996	70.977	1.00	31.95	B	C
	ATOM	604	OG1	THR	B	185	44.400	64.231	70.602	1.00	32.22	B	O
	ATOM	605	CG2	THR	B	185	42.888	62.497	69.874	1.00	32.73	B	C
5	ATOM	606	C	THR	B	185	43.088	64.605	72.845	1.00	34.12	B	C
	ATOM	607	O	THR	B	185	42.374	65.508	72.410	1.00	34.39	B	O
	ATOM	608	N	PRO	B	186	43.967	64.811	73.839	1.00	34.64	B	N
	ATOM	609	CD	PRO	B	186	44.822	63.773	74.439	1.00	33.51	B	C
	ATOM	610	CA	PRO	B	186	44.186	66.116	74.470	1.00	34.49	B	C
10	ATOM	611	CB	PRO	B	186	45.339	65.863	75.446	1.00	34.80	B	C
	ATOM	612	CG	PRO	B	186	45.942	64.569	75.018	1.00	35.43	B	C
	ATOM	613	C	PRO	B	186	44.502	67.250	73.514	1.00	35.42	B	C
	ATOM	614	O	PRO	B	186	45.097	67.042	72.463	1.00	35.41	B	O
	ATOM	615	N	ALA	B	187	44.092	68.457	73.889	1.00	36.29	B	N
15	ATOM	616	CA	ALA	B	187	44.361	69.629	73.075	1.00	38.06	B	C
	ATOM	617	CB	ALA	B	187	43.703	70.858	73.693	1.00	35.93	B	C
	ATOM	618	C	ALA	B	187	45.873	69.790	73.070	1.00	39.27	B	C
	ATOM	619	O	ALA	B	187	46.537	69.421	74.036	1.00	40.11	B	O
	ATOM	620	N	LEU	B	188	46.434	70.315	71.989	1.00	41.98	B	N
20	ATOM	621	CA	LEU	B	188	47.874	70.496	71.965	1.00	43.73	B	C
	ATOM	622	CB	LEU	B	188	48.443	70.329	70.547	1.00	43.92	B	C
	ATOM	623	CG	LEU	B	188	47.668	70.768	69.310	1.00	44.94	B	C
	ATOM	624	CD1	LEU	B	188	48.521	71.752	68.509	1.00	43.23	B	C
	ATOM	625	CD2	LEU	B	188	47.321	69.541	68.466	1.00	44.29	B	C
25	ATOM	626	C	LEU	B	188	48.217	71.870	72.518	1.00	44.57	B	C
	ATOM	627	O	LEU	B	188	47.490	72.836	72.294	1.00	44.13	B	O
	ATOM	628	N	LYS	B	189	49.314	71.942	73.264	1.00	47.13	B	N
	ATOM	629	CA	LYS	B	189	49.761	73.199	73.846	1.00	50.74	B	C
	ATOM	630	CB	LYS	B	189	51.088	72.995	74.569	1.00	49.16	B	C
30	ATOM	631	CG	LYS	B	189	51.118	71.747	75.437	1.00	49.62	B	C
	ATOM	632	CD	LYS	B	189	50.714	72.060	76.871	1.00	51.14	B	C
	ATOM	633	CE	LYS	B	189	49.449	71.316	77.279	1.00	51.28	B	C
	ATOM	634	NZ	LYS	B	189	49.685	69.854	77.455	1.00	50.43	B	N
	ATOM	635	C	LYS	B	189	49.922	74.251	72.759	1.00	53.43	B	C
35	ATOM	636	O	LYS	B	189	50.155	73.922	71.592	1.00	53.41	B	O
	ATOM	637	N	LYS	B	190	49.780	75.517	73.139	1.00	57.70	B	N
	ATOM	638	CA	LYS	B	190	49.912	76.610	72.179	1.00	60.08	B	C
	ATOM	639	CB	LYS	B	190	49.856	77.963	72.899	1.00	62.07	B	C
	ATOM	640	CG	LYS	B	190	50.089	79.170	71.996	1.00	63.52	B	C
40	ATOM	641	CD	LYS	B	190	51.297	79.981	72.456	1.00	65.16	B	C
	ATOM	642	CE	LYS	B	190	51.189	80.377	73.928	1.00	66.36	B	C
	ATOM	643	NZ	LYS	B	190	52.397	79.977	74.707	1.00	68.13	B	N
	ATOM	644	C	LYS	B	190	51.247	76.450	71.458	1.00	60.57	B	C
	ATOM	645	O	LYS	B	190	52.303	76.337	72.096	1.00	59.74	B	O
45	ATOM	646	N	GLY	B	191	51.197	76.426	70.129	1.00	60.07	B	N
	ATOM	647	CA	GLY	B	191	52.421	76.261	69.371	1.00	58.76	B	C
	ATOM	648	C	GLY	B	191	53.103	74.953	69.740	1.00	57.74	B	C
	ATOM	649	O	GLY	B	191	54.083	74.926	70.493	1.00	57.22	B	O
	ATOM	650	N	GLU	B	192	52.558	73.859	69.223	1.00	55.26	B	N
50	ATOM	651	CA	GLU	B	192	53.106	72.533	69.468	1.00	51.43	B	C
	ATOM	652	CB	GLU	B	192	52.347	71.836	70.597	1.00	49.33	B	C
	ATOM	653	CG	GLU	B	192	52.943	70.496	70.997	1.00	47.34	B	C
	ATOM	654	CD	GLU	B	192	51.977	69.630	71.798	1.00	47.25	B	C
	ATOM	655	OE1	GLU	B	192	52.290	68.445	72.040	1.00	44.68	B	O
55	ATOM	656	OE2	GLU	B	192	50.904	70.131	72.191	1.00	47.14	B	O
	ATOM	657	C	GLU	B	192	52.961	71.742	68.176	1.00	50.12	B	C
	ATOM	658	O	GLU	B	192	52.029	71.978	67.399	1.00	51.90	B	O
	ATOM	659	N	ASP	B	193	53.883	70.813	67.946	1.00	46.50	B	N
	ATOM	660	CA	ASP	B	193	53.860	69.990	66.739	1.00	42.77	B	C
60	ATOM	661	CB	ASP	B	193	55.160	69.196	66.627	1.00	42.80	B	C
	ATOM	662	CG	ASP	B	193	55.353	68.581	65.257	1.00	43.49	B	C
	ATOM	663	OD1	ASP	B	193	55.761	67.403	65.191	1.00	45.00	B	O
	ATOM	664	OD2	ASP	B	193	55.103	69.271	64.247	1.00	45.23	B	O
	ATOM	665	C	ASP	B	193	52.669	69.037	66.755	1.00	38.94	B	C
65	ATOM	666	O	ASP	B	193	52.589	68.144	67.597	1.00	37.98	B	O
	ATOM	667	N	PRO	B	194	51.725	69.217	65.818	1.00	35.80	B	N
	ATOM	668	CD	PRO	B	194	51.699	70.227	64.750	1.00	34.64	B	C
	ATOM	669	CA	PRO	B	194	50.552	68.341	65.774	1.00	33.02	B	C
	ATOM	670	CB	PRO	B	194	49.580	69.070	64.840	1.00	32.45	B	C

	ATOM	671	CG	PRO	B	194	50.244	70.372	64.474	1.00	34.44	B	C
	ATOM	672	C	PRO	B	194	50.903	66.960	65.246	1.00	32.44	B	C
	ATOM	673	O	PRO	B	194	50.099	66.032	65.326	1.00	32.30	B	O
	ATOM	674	N	PHE	B	195	52.113	66.823	64.720	1.00	31.66	B	N
5	ATOM	675	CA	PHE	B	195	52.543	65.557	64.146	1.00	33.24	B	C
	ATOM	676	CB	PHE	B	195	52.867	65.763	62.664	1.00	30.85	B	C
	ATOM	677	CG	PHE	B	195	51.822	66.558	61.930	1.00	28.21	B	C
	ATOM	678	CD1	PHE	B	195	50.643	65.952	61.501	1.00	27.75	B	C
10	ATOM	679	CD2	PHE	B	195	51.998	67.917	61.700	1.00	26.12	B	C
	ATOM	680	CE1	PHE	B	195	49.654	66.692	60.857	1.00	25.08	B	C
	ATOM	681	CE2	PHE	B	195	51.017	68.661	61.059	1.00	25.80	B	C
	ATOM	682	CZ	PHE	B	195	49.843	68.047	60.638	1.00	25.79	B	C
	ATOM	683	C	PHE	B	195	53.716	64.897	64.854	1.00	35.38	B	C
	ATOM	684	O	PHE	B	195	54.469	64.141	64.236	1.00	34.66	B	O
15	ATOM	685	N	ARG	B	196	53.853	65.170	66.151	1.00	37.46	B	N
	ATOM	686	CA	ARG	B	196	54.927	64.598	66.964	1.00	38.90	B	C
	ATOM	687	CB	ARG	B	196	54.797	65.053	68.419	1.00	40.86	B	C
	ATOM	688	CG	ARG	B	196	54.896	66.553	68.602	1.00	45.40	B	C
	ATOM	689	CD	ARG	B	196	54.836	66.933	70.067	1.00	48.62	B	C
20	ATOM	690	NE	ARG	B	196	55.772	66.152	70.871	1.00	51.28	B	N
	ATOM	691	CZ	ARG	B	196	56.154	66.483	72.101	1.00	53.01	B	C
	ATOM	692	NH1	ARG	B	196	55.681	67.583	72.674	1.00	52.10	B	N
	ATOM	693	NH2	ARG	B	196	57.013	65.715	72.759	1.00	53.70	B	N
	ATOM	694	C	ARG	B	196	54.894	63.079	66.916	1.00	38.76	B	C
25	ATOM	695	O	ARG	B	196	53.828	62.469	66.929	1.00	38.68	B	O
	ATOM	696	N	THR	B	197	56.068	62.466	66.881	1.00	39.50	B	N
	ATOM	697	CA	THR	B	197	56.146	61.016	66.822	1.00	40.88	B	C
	ATOM	698	CB	THR	B	197	56.617	60.568	65.422	1.00	40.79	B	C
	ATOM	699	OG1	THR	B	197	56.252	59.200	65.209	1.00	42.29	B	O
30	ATOM	700	CG2	THR	B	197	58.123	60.734	65.281	1.00	39.25	B	C
	ATOM	701	C	THR	B	197	57.078	60.441	67.892	1.00	41.70	B	C
	ATOM	702	O	THR	B	197	57.483	59.279	67.819	1.00	42.24	B	O
	ATOM	703	N	ASP	B	198	57.403	61.255	68.893	1.00	41.85	B	N
	ATOM	704	CA	ASP	B	198	58.292	60.826	69.962	1.00	41.79	B	C
35	ATOM	705	CB	ASP	B	198	59.210	61.978	70.377	1.00	41.84	B	C
	ATOM	706	CG	ASP	B	198	58.446	63.205	70.835	1.00	43.07	B	C
	ATOM	707	OD1	ASP	B	198	57.779	63.844	69.997	1.00	44.38	B	O
	ATOM	708	OD2	ASP	B	198	58.518	63.538	72.036	1.00	44.52	B	O
	ATOM	709	C	ASP	B	198	57.566	60.290	71.189	1.00	42.52	B	C
40	ATOM	710	O	ASP	B	198	58.190	59.722	72.084	1.00	43.69	B	O
	ATOM	711	N	ASN	B	199	56.249	60.452	71.227	1.00	42.53	B	N
	ATOM	712	CA	ASN	B	199	55.468	59.996	72.369	1.00	41.60	B	C
	ATOM	713	CB	ASN	B	199	54.618	61.151	72.891	1.00	45.19	B	C
	ATOM	714	CG	ASN	B	199	54.050	62.003	71.767	1.00	49.49	B	C
45	ATOM	715	OD1	ASN	B	199	53.874	63.215	71.917	1.00	52.42	B	O
	ATOM	716	ND2	ASN	B	199	53.761	61.370	70.627	1.00	49.40	B	N
	ATOM	717	C	ASN	B	199	54.573	58.802	72.046	1.00	39.45	B	C
	ATOM	718	O	ASN	B	199	53.587	58.554	72.738	1.00	39.08	B	O
	ATOM	719	N	LEU	B	200	54.923	58.058	71.003	1.00	36.92	B	N
50	ATOM	720	CA	LEU	B	200	54.140	56.895	70.601	1.00	34.24	B	C
	ATOM	721	CB	LEU	B	200	54.381	56.576	69.125	1.00	33.90	B	C
	ATOM	722	CG	LEU	B	200	53.771	57.471	68.047	1.00	35.28	B	C
	ATOM	723	CD1	LEU	B	200	54.143	56.915	66.680	1.00	35.11	B	C
	ATOM	724	CD2	LEU	B	200	52.259	57.530	68.200	1.00	33.80	B	C
55	ATOM	725	C	LEU	B	200	54.492	55.665	71.426	1.00	33.78	B	C
	ATOM	726	O	LEU	B	200	55.658	55.436	71.749	1.00	34.01	B	O
	ATOM	727	N	PRO	B	201	53.483	54.851	71.777	1.00	33.33	B	N
	ATOM	728	CD	PRO	B	201	52.061	55.060	71.463	1.00	31.63	B	C
	ATOM	729	CA	PRO	B	201	53.685	53.628	72.566	1.00	34.65	B	C
60	ATOM	730	CB	PRO	B	201	52.275	53.060	72.728	1.00	32.15	B	C
	ATOM	731	CG	PRO	B	201	51.368	54.195	72.459	1.00	29.83	B	C
	ATOM	732	C	PRO	B	201	54.619	52.629	71.880	1.00	36.31	B	C
	ATOM	733	O	PRO	B	201	55.057	52.845	70.750	1.00	37.00	B	O
	ATOM	734	N	GLU	B	202	54.912	51.533	72.570	1.00	37.96	B	N
65	ATOM	735	CA	GLU	B	202	55.787	50.501	72.029	1.00	40.97	B	C
	ATOM	736	CB	GLU	B	202	56.599	49.846	73.152	1.00	45.07	B	C
	ATOM	737	CG	GLU	B	202	56.874	50.752	74.349	1.00	53.09	B	C
	ATOM	738	CD	GLU	B	202	57.602	50.031	75.483	1.00	57.96	B	C

	ATOM	739	OE1	GLU	B	202	57.207	48.888	75.823	1.00	59.91	B	O
	ATOM	740	OE2	GLU	B	202	58.568	50.611	76.036	1.00	60.42	B	O
	ATOM	741	C	GLU	B	202	54.959	49.439	71.320	1.00	39.13	B	C
5	ATOM	742	O	GLU	B	202	53.763	49.308	71.568	1.00	39.22	B	O
	ATOM	743	N	ASN	B	203	55.595	48.678	70.439	1.00	37.75	B	N
	ATOM	744	CA	ASN	B	203	54.892	47.631	69.708	1.00	36.99	B	C
	ATOM	745	CB	ASN	B	203	55.735	47.156	68.525	1.00	36.13	B	C
	ATOM	746	CG	ASN	B	203	55.991	48.255	67.509	1.00	36.06	B	C
10	ATOM	747	OD1	ASN	B	203	56.765	48.077	66.570	1.00	37.95	B	O
	ATOM	748	ND2	ASN	B	203	55.343	49.397	67.692	1.00	35.66	B	N
	ATOM	749	C	ASN	B	203	54.586	46.461	70.635	1.00	36.81	B	C
	ATOM	750	O	ASN	B	203	55.371	46.146	71.528	1.00	38.24	B	O
	ATOM	751	N	LEU	B	204	53.443	45.819	70.423	1.00	36.53	B	N
15	ATOM	752	CA	LEU	B	204	53.032	44.690	71.254	1.00	36.65	B	C
	ATOM	753	CB	LEU	B	204	51.641	44.941	71.839	1.00	36.86	B	C
	ATOM	754	CG	LEU	B	204	51.472	46.186	72.711	1.00	37.91	B	C
	ATOM	755	CD1	LEU	B	204	50.005	46.353	73.059	1.00	38.35	B	C
	ATOM	756	CD2	LEU	B	204	52.314	46.053	73.972	1.00	37.10	B	C
20	ATOM	757	C	LEU	B	204	53.019	43.377	70.489	1.00	35.88	B	C
	ATOM	758	O	LEU	B	204	52.724	42.330	71.052	1.00	37.66	B	O
	ATOM	759	N	GLY	B	205	53.324	43.446	69.200	1.00	36.09	B	N
	ATOM	760	CA	GLY	B	205	53.360	42.255	68.375	1.00	34.77	B	C
	ATOM	761	C	GLY	B	205	52.270	41.216	68.561	1.00	34.26	B	C
25	ATOM	762	O	GLY	B	205	52.540	40.023	68.428	1.00	34.79	B	O
	ATOM	763	N	TYR	B	206	51.046	41.637	68.866	1.00	33.81	B	N
	ATOM	764	CA	TYR	B	206	49.958	40.669	69.022	1.00	35.18	B	C
	ATOM	765	CB	TYR	B	206	48.729	41.311	69.671	1.00	37.83	B	C
	ATOM	766	CG	TYR	B	206	48.900	41.699	71.117	1.00	40.66	B	C
30	ATOM	767	CD1	TYR	B	206	49.678	40.929	71.983	1.00	42.63	B	C
	ATOM	768	CE1	TYR	B	206	49.830	41.284	73.324	1.00	43.40	B	C
	ATOM	769	CD2	TYR	B	206	48.275	42.834	71.625	1.00	41.68	B	C
	ATOM	770	CE2	TYR	B	206	48.418	43.198	72.960	1.00	43.13	B	C
	ATOM	771	CZ	TYR	B	206	49.196	42.420	73.804	1.00	43.96	B	C
35	ATOM	772	OH	TYR	B	206	49.344	42.787	75.121	1.00	46.61	B	O
	ATOM	773	C	TYR	B	206	49.567	40.171	67.635	1.00	35.23	B	C
	ATOM	774	O	TYR	B	206	49.982	40.741	66.626	1.00	34.23	B	O
	ATOM	775	N	HIS	B	207	48.768	39.113	67.580	1.00	34.50	B	N
	ATOM	776	CA	HIS	B	207	48.335	38.589	66.298	1.00	35.12	B	C
40	ATOM	777	CB	HIS	B	207	48.477	37.066	66.262	1.00	38.37	B	C
	ATOM	778	CG	HIS	B	207	48.277	36.479	64.898	1.00	41.59	B	C
	ATOM	779	CD2	HIS	B	207	48.997	36.607	63.759	1.00	41.85	B	C
	ATOM	780	ND1	HIS	B	207	47.206	35.666	64.585	1.00	43.85	B	N
	ATOM	781	CE1	HIS	B	207	47.276	35.320	63.312	1.00	43.11	B	C
45	ATOM	782	NE2	HIS	B	207	48.353	35.878	62.788	1.00	43.03	B	N
	ATOM	783	C	HIS	B	207	46.885	38.982	66.029	1.00	34.49	B	C
	ATOM	784	O	HIS	B	207	45.985	38.640	66.797	1.00	33.72	B	O
	ATOM	785	N	LEU	B	208	46.667	39.704	64.932	1.00	33.96	B	N
	ATOM	786	CA	LEU	B	208	45.331	40.148	64.556	1.00	33.18	B	C
50	ATOM	787	CB	LEU	B	208	45.396	41.554	63.967	1.00	31.07	B	C
	ATOM	788	CG	LEU	B	208	45.969	42.597	64.928	1.00	30.64	B	C
	ATOM	789	CD1	LEU	B	208	46.244	43.889	64.179	1.00	31.15	B	C
	ATOM	790	CD2	LEU	B	208	44.994	42.829	66.072	1.00	29.33	B	C
	ATOM	791	C	LEU	B	208	44.702	39.188	63.556	1.00	33.68	B	C
55	ATOM	792	O	LEU	B	208	45.350	38.740	62.615	1.00	33.49	B	O
	ATOM	793	N	LYS	B	209	43.433	38.873	63.766	1.00	34.32	B	N
	ATOM	794	CA	LYS	B	209	42.730	37.950	62.890	1.00	35.37	B	C
	ATOM	795	CB	LYS	B	209	42.899	36.518	63.404	1.00	37.46	B	C
	ATOM	796	CG	LYS	B	209	42.859	35.461	62.318	1.00	39.05	B	C
60	ATOM	797	CD	LYS	B	209	42.495	34.095	62.887	1.00	42.61	B	C
	ATOM	798	CE	LYS	B	209	42.109	33.124	61.778	1.00	43.40	B	C
	ATOM	799	NZ	LYS	B	209	42.011	31.719	62.257	1.00	44.76	B	N
	ATOM	800	C	LYS	B	209	41.248	38.288	62.807	1.00	34.40	B	C
	ATOM	801	O	LYS	B	209	40.608	38.590	63.813	1.00	34.47	B	O
65	ATOM	802	N	MET	B	210	40.712	38.237	61.595	1.00	32.92	B	N
	ATOM	803	CA	MET	B	210	39.308	38.526	61.363	1.00	31.88	B	C
	ATOM	804	CB	MET	B	210	39.077	38.800	59.873	1.00	31.91	B	C
	ATOM	805	CG	MET	B	210	37.793	39.549	59.563	1.00	34.14	B	C
	ATOM	806	SD	MET	B	210	37.944	41.362	59.653	1.00	33.52	B	S

	ATOM	807	CE	MET	B	210	39.677	41.562	59.721	1.00	28.43	B	C
	ATOM	808	C	MET	B	210	38.475	37.328	61.806	1.00	31.89	B	C
	ATOM	809	O	MET	B	210	38.841	36.182	61.542	1.00	31.31	B	O
	ATOM	810	N	LYS	B	211	37.363	37.585	62.486	1.00	31.01	B	N
5	ATOM	811	CA	LYS	B	211	36.497	36.504	62.939	1.00	31.46	B	C
	ATOM	812	CB	LYS	B	211	36.783	36.155	64.399	1.00	32.69	B	C
	ATOM	813	CG	LYS	B	211	36.312	34.767	64.780	1.00	33.61	B	C
	ATOM	814	CD	LYS	B	211	35.503	34.803	66.052	1.00	36.86	B	C
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10	ATOM	815	CE	LYS	B	211	36.114	33.900	67.104	1.00	39.26	B	C
	ATOM	816	NZ	LYS	B	211	35.878	32.471	66.761	1.00	43.71	B	N
	ATOM	817	C	LYS	B	211	35.029	36.866	62.780	1.00	31.63	B	C
	ATOM	818	O	LYS	B	211	34.486	37.671	63.540	1.00	32.70	B	O
	ATOM	819	N	ASP	B	212	34.393	36.258	61.784	1.00	30.26	B	N
15	ATOM	820	CA	ASP	B	212	32.993	36.506	61.489	1.00	29.36	B	C
	ATOM	821	CB	ASP	B	212	32.107	35.916	62.586	1.00	32.46	B	C
	ATOM	822	CG	ASP	B	212	32.074	34.399	62.559	1.00	34.01	B	C
	ATOM	823	OD1	ASP	B	212	32.132	33.814	61.458	1.00	33.96	B	O
	ATOM	824	OD2	ASP	B	212	31.989	33.791	63.646	1.00	36.60	B	O
20	ATOM	825	C	ASP	B	212	32.705	37.997	61.329	1.00	26.99	B	C
	ATOM	826	O	ASP	B	212	31.672	38.489	61.766	1.00	25.56	B	O
	ATOM	827	N	GLY	B	213	33.632	38.711	60.701	1.00	27.21	B	N
	ATOM	828	CA	GLY	B	213	33.439	40.132	60.472	1.00	26.20	B	C
	ATOM	829	C	GLY	B	213	34.055	41.070	61.493	1.00	25.12	B	C
25	ATOM	830	O	GLY	B	213	33.980	42.290	61.334	1.00	23.64	B	O
	ATOM	831	N	VAL	B	214	34.671	40.521	62.536	1.00	23.94	B	N
	ATOM	832	CA	VAL	B	214	35.274	41.365	63.560	1.00	24.04	B	C
	ATOM	833	CB	VAL	B	214	34.534	41.217	64.922	1.00	23.42	B	C
	ATOM	834	CG1	VAL	B	214	35.076	42.226	65.930	1.00	23.13	B	C
	ATOM	835	CG2	VAL	B	214	33.041	41.427	64.729	1.00	22.60	B	C
30	ATOM	836	C	VAL	B	214	36.743	41.044	63.766	1.00	25.05	B	C
	ATOM	837	O	VAL	B	214	37.131	39.877	63.781	1.00	25.67	B	O
	ATOM	838	N	VAL	B	215	37.562	42.081	63.912	1.00	24.32	B	N
	ATOM	839	CA	VAL	B	215	38.984	41.884	64.147	1.00	24.46	B	C
35	ATOM	840	CB	VAL	B	215	39.786	43.198	63.975	1.00	23.79	B	C
	ATOM	841	CG1	VAL	B	215	41.271	42.944	64.226	1.00	22.00	B	C
	ATOM	842	CG2	VAL	B	215	39.568	43.765	62.577	1.00	23.88	B	C
	ATOM	843	C	VAL	B	215	39.162	41.394	65.584	1.00	26.01	B	C
	ATOM	844	O	VAL	B	215	38.755	42.069	66.532	1.00	25.52	B	O
40	ATOM	845	N	TYR	B	216	39.749	40.211	65.735	1.00	26.59	B	N
	ATOM	846	CA	TYR	B	216	39.997	39.642	67.051	1.00	27.11	B	C
	ATOM	847	CB	TYR	B	216	39.532	38.195	67.103	1.00	26.82	B	C
	ATOM	848	CG	TYR	B	216	38.095	38.058	67.521	1.00	28.45	B	C
	ATOM	849	CD1	TYR	B	216	37.744	37.321	68.649	1.00	28.33	B	C
45	ATOM	850	CE1	TYR	B	216	36.416	37.195	69.039	1.00	28.04	B	C
	ATOM	851	CD2	TYR	B	216	37.079	38.670	66.789	1.00	29.86	B	C
	ATOM	852	CE2	TYR	B	216	35.746	38.552	67.170	1.00	28.92	B	C
	ATOM	853	CZ	TYR	B	216	35.422	37.811	68.295	1.00	29.14	B	C
	ATOM	854	OH	TYR	B	216	34.103	37.683	68.667	1.00	29.49	B	O
50	ATOM	855	C	TYR	B	216	41.479	39.710	67.362	1.00	28.45	B	C
	ATOM	856	O	TYR	B	216	42.311	39.473	66.493	1.00	27.47	B	O
	ATOM	857	N	ILE	B	217	41.810	40.047	68.604	1.00	31.00	B	N
	ATOM	858	CA	ILE	B	217	43.204	40.143	69.007	1.00	33.79	B	C
	ATOM	859	CB	ILE	B	217	43.459	41.384	69.880	1.00	34.67	B	C
55	ATOM	860	CG2	ILE	B	217	44.932	41.440	70.271	1.00	35.64	B	C
	ATOM	861	CG1	ILE	B	217	43.062	42.654	69.120	1.00	36.25	B	C
	ATOM	862	CD1	ILE	B	217	41.911	43.416	69.759	1.00	36.28	B	C
	ATOM	863	C	ILE	B	217	43.621	38.908	69.788	1.00	35.61	B	C
	ATOM	864	O	ILE	B	217	42.981	38.536	70.774	1.00	36.90	B	O
60	ATOM	865	N	TYR	B	218	44.689	38.267	69.328	1.00	37.81	B	N
	ATOM	866	CA	TYR	B	218	45.205	37.077	69.981	1.00	39.95	B	C
	ATOM	867	CB	TYR	B	218	45.279	35.914	68.999	1.00	36.35	B	C
	ATOM	868	CG	TYR	B	218	43.918	35.491	68.519	1.00	34.75	B	C
	ATOM	869	CD1	TYR	B	218	43.209	34.492	69.175	1.00	34.09	B	C
65	ATOM	870	CE1	TYR	B	218	41.916	34.151	68.787	1.00	34.21	B	C
	ATOM	871	CD2	TYR	B	218	43.306	36.140	67.451	1.00	34.15	B	C
	ATOM	872	CE2	TYR	B	218	42.017	35.810	67.051	1.00	35.22	B	C
	ATOM	873	CZ	TYR	B	218	41.326	34.817	67.725	1.00	35.77	B	C
	ATOM	874	OH	TYR	B	218	40.042	34.498	67.342	1.00	37.25	B	O

	ATOM	875	C	TYR	B	218	46.576	37.418	70.506	1.00	44.14	B	C
	ATOM	876	O	TYR	B	218	47.401	37.998	69.794	1.00	43.06	B	O
	ATOM	877	N	ALA	B	219	46.800	37.081	71.771	1.00	50.08	B	N
5	ATOM	878	CA	ALA	B	219	48.069	37.360	72.418	1.00	53.91	B	C
	ATOM	879	CB	ALA	B	219	48.130	36.680	73.782	1.00	55.44	B	C
	ATOM	880	C	ALA	B	219	49.191	36.860	71.535	1.00	56.45	B	C
	ATOM	881	O	ALA	B	219	49.081	35.791	70.939	1.00	54.02	B	O
	ATOM	882	N	ASN	B	220	50.246	37.667	71.450	1.00	60.06	B	N
10	ATOM	883	CA	ASN	B	220	51.450	37.382	70.671	1.00	63.32	B	C
	ATOM	884	CB	ASN	B	220	52.665	37.939	71.425	1.00	64.92	B	C
	ATOM	885	CG	ASN	B	220	52.275	38.630	72.734	1.00	66.75	B	C
	ATOM	886	OD1	ASN	B	220	52.527	39.821	72.922	1.00	68.16	B	O
	ATOM	887	ND2	ASN	B	220	51.654	37.882	73.639	1.00	67.90	B	N
15	ATOM	888	C	ASN	B	220	51.618	35.882	70.421	1.00	64.28	B	C
	ATOM	889	O	ASN	B	220	52.555	35.247	70.916	1.00	65.08	B	O
	ATOM	890	N	GLU	B	221	50.708	35.325	69.632	1.00	64.48	B	N
	ATOM	891	CA	GLU	B	221	50.727	33.905	69.343	1.00	65.20	B	C
	ATOM	892	CB	GLU	B	221	50.154	33.122	70.523	1.00	66.28	B	C
20	ATOM	893	CG	GLU	B	221	51.164	32.352	71.329	1.00	69.50	B	C
	ATOM	894	CD	GLU	B	221	50.551	31.710	72.566	1.00	72.91	B	C
	ATOM	895	OE1	GLU	B	221	49.553	30.970	72.421	1.00	74.57	B	O
	ATOM	896	OE2	GLU	B	221	51.062	31.944	73.684	1.00	74.76	B	O
	ATOM	897	C	GLU	B	221	49.880	33.617	68.127	1.00	64.34	B	C
25	ATOM	898	O	GLU	B	221	48.660	33.798	68.156	1.00	63.32	B	O
	ATOM	899	N	ALA	B	222	50.525	33.167	67.056	1.00	63.85	B	N
	ATOM	900	CA	ALA	B	222	49.797	32.810	65.852	1.00	62.78	B	C
	ATOM	901	CB	ALA	B	222	50.766	32.399	64.748	1.00	62.07	B	C
	ATOM	902	C	ALA	B	222	48.931	31.627	66.295	1.00	62.61	B	C
30	ATOM	903	O	ALA	B	222	48.206	31.027	65.503	1.00	61.19	B	O
	ATOM	904	N	ALA	B	223	49.030	31.312	67.586	1.00	63.31	B	N
	ATOM	905	CA	ALA	B	223	48.273	30.241	68.218	1.00	64.52	B	C
	ATOM	906	CB	ALA	B	223	48.811	29.985	69.614	1.00	63.61	B	C
	ATOM	907	C	ALA	B	223	46.802	30.652	68.288	1.00	65.87	B	C
35	ATOM	908	O	ALA	B	223	46.089	30.337	69.246	1.00	65.69	B	O
	ATOM	909	N	ALA	B	224	46.368	31.386	67.268	1.00	66.60	B	N
	ATOM	910	CA	ALA	B	224	44.990	31.828	67.164	1.00	66.68	B	C
	ATOM	911	CB	ALA	B	224	44.883	32.966	66.166	1.00	65.24	B	C
	ATOM	912	C	ALA	B	224	44.215	30.615	66.667	1.00	67.52	B	C
40	ATOM	913	O	ALA	B	224	42.986	30.650	66.555	1.00	67.60	B	O
	ATOM	914	N	GLY	B	225	44.960	29.546	66.364	1.00	68.19	B	N
	ATOM	915	CA	GLY	B	225	44.364	28.305	65.895	1.00	67.94	B	C
	ATOM	916	C	GLY	B	225	43.334	27.868	66.913	1.00	67.89	B	C
	ATOM	917	O	GLY	B	225	42.253	27.383	66.573	1.00	68.03	B	O
45	ATOM	918	N	LYS	B	226	43.692	28.031	68.180	1.00	67.33	B	N
	ATOM	919	CA	LYS	B	226	42.785	27.717	69.265	1.00	66.68	B	C
	ATOM	920	CB	LYS	B	226	43.550	27.185	70.476	1.00	66.85	B	C
	ATOM	921	CG	LYS	B	226	42.765	26.174	71.291	1.00	68.82	B	C
	ATOM	922	CD	LYS	B	226	42.758	24.807	70.617	1.00	70.94	B	C
50	ATOM	923	CE	LYS	B	226	42.678	23.678	71.639	1.00	71.46	B	C
	ATOM	924	NZ	LYS	B	226	44.029	23.167	72.028	1.00	72.86	B	N
	ATOM	925	C	LYS	B	226	42.165	29.071	69.583	1.00	66.32	B	C
	ATOM	926	O	LYS	B	226	42.838	29.962	70.109	1.00	67.30	B	O
	ATOM	927	N	ASP	B	227	40.897	29.240	69.223	1.00	63.43	B	N
55	ATOM	928	CA	ASP	B	227	40.200	30.494	69.467	1.00	60.57	B	C
	ATOM	929	CB	ASP	B	227	38.717	30.342	69.138	1.00	61.14	B	C
	ATOM	930	CG	ASP	B	227	38.337	31.041	67.851	1.00	62.69	B	C
	ATOM	931	OD1	ASP	B	227	37.990	30.338	66.874	1.00	61.60	B	O
	ATOM	932	OD2	ASP	B	227	38.392	32.294	67.822	1.00	61.30	B	O
60	ATOM	933	C	ASP	B	227	40.367	30.929	70.914	1.00	58.09	B	C
	ATOM	934	O	ASP	B	227	39.518	30.652	71.761	1.00	58.98	B	O
	ATOM	935	N	GLU	B	228	41.473	31.610	71.190	1.00	54.95	B	N
	ATOM	936	CA	GLU	B	228	41.768	32.085	72.533	1.00	52.63	B	C
	ATOM	937	CB	GLU	B	228	42.812	31.182	73.195	1.00	53.66	B	C
	ATOM	938	CG	GLU	B	228	42.226	29.901	73.779	1.00	56.69	B	C
65	ATOM	939	CD	GLU	B	228	43.234	28.762	73.862	1.00	58.56	B	C
	ATOM	940	OE1	GLU	B	228	44.454	29.040	73.953	1.00	58.45	B	O
	ATOM	941	OE2	GLU	B	228	42.800	27.587	73.839	1.00	58.32	B	O
	ATOM	942	C	GLU	B	228	42.284	33.511	72.444	1.00	49.13	B	C

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5	ATOM	943	O	GLU	B	228	43.455	33.779	72.724	1.00	49.40	B	O
	ATOM	944	N	PRO	B	229	41.409	34.449	72.049	1.00	46.36	B	N
	ATOM	945	CD	PRO	B	229	39.992	34.222	71.711	1.00	45.34	B	C
	ATOM	946	CA	PRO	B	229	41.777	35.861	71.917	1.00	44.50	B	C
	ATOM	947	CB	PRO	B	229	40.508	36.513	71.374	1.00	44.48	B	C
	ATOM	948	CG	PRO	B	229	39.407	35.594	71.789	1.00	43.80	B	C
	ATOM	949	C	PRO	B	229	42.198	36.467	73.241	1.00	43.57	B	C
10	ATOM	950	O	PRO	B	229	41.914	35.913	74.295	1.00	42.02	B	O
	ATOM	951	N	LYS	B	230	42.886	37.599	73.179	1.00	44.06	B	N
	ATOM	952	CA	LYS	B	230	43.315	38.287	74.384	1.00	44.47	B	C
	ATOM	953	CB	LYS	B	230	44.057	39.579	74.030	1.00	45.82	B	C
	ATOM	954	CG	LYS	B	230	45.572	39.469	74.053	1.00	46.83	B	C
15	ATOM	955	CD	LYS	B	230	46.087	39.352	75.474	1.00	49.28	B	C
	ATOM	956	CE	LYS	B	230	47.367	40.141	75.663	1.00	50.07	B	C
	ATOM	957	NZ	LYS	B	230	48.565	39.292	75.412	1.00	50.85	B	N
	ATOM	958	C	LYS	B	230	42.037	38.629	75.139	1.00	45.81	B	C
	ATOM	959	O	LYS	B	230	41.059	39.083	74.537	1.00	46.01	B	O
20	ATOM	960	N	PRO	B	231	42.019	38.399	76.463	1.00	45.78	B	N
	ATOM	961	CD	PRO	B	231	43.093	37.835	77.303	1.00	45.97	B	C
	ATOM	962	CA	PRO	B	231	40.821	38.710	77.246	1.00	45.48	B	C
	ATOM	963	CB	PRO	B	231	41.310	38.630	78.690	1.00	45.95	B	C
	ATOM	964	CG	PRO	B	231	42.415	37.620	78.635	1.00	46.16	B	C
25	ATOM	965	C	PRO	B	231	40.268	40.087	76.890	1.00	44.57	B	C
	ATOM	966	O	PRO	B	231	40.973	41.095	76.973	1.00	44.06	B	O
	ATOM	967	N	LEU	B	232	39.005	40.110	76.477	1.00	44.42	B	N
	ATOM	968	CA	LEU	B	232	38.330	41.343	76.093	1.00	44.07	B	C
	ATOM	969	CB	LEU	B	232	38.940	41.895	74.803	1.00	44.35	B	C
30	ATOM	970	CG	LEU	B	232	38.779	43.389	74.524	1.00	44.23	B	C
	ATOM	971	CD1	LEU	B	232	40.031	43.919	73.827	1.00	44.79	B	C
	ATOM	972	CD2	LEU	B	232	37.545	43.611	73.661	1.00	44.97	B	C
	ATOM	973	C	LEU	B	232	36.847	41.069	75.879	1.00	43.47	B	C
	ATOM	974	O	LEU	B	232	36.438	39.927	75.664	1.00	42.07	B	O
35	ATOM	975	N	LEU	B	233	36.039	42.119	75.955	1.00	44.04	B	N
	ATOM	976	CA	LEU	B	233	34.602	41.981	75.744	1.00	43.09	B	C
	ATOM	977	CB	LEU	B	233	33.830	42.954	76.647	1.00	46.53	B	C
	ATOM	978	CG	LEU	B	233	34.064	44.454	76.414	1.00	49.33	B	C
	ATOM	979	CD1	LEU	B	233	32.943	45.258	77.074	1.00	48.66	B	C
40	ATOM	980	CD2	LEU	B	233	35.437	44.856	76.963	1.00	48.84	B	C
	ATOM	981	C	LEU	B	233	34.317	42.276	74.271	1.00	40.33	B	C
	ATOM	982	O	LEU	B	233	34.399	43.424	73.824	1.00	39.37	B	O
	ATOM	983	N	TYR	B	234	34.015	41.221	73.520	1.00	37.41	B	N
	ATOM	984	CA	TYR	B	234	33.725	41.339	72.096	1.00	34.56	B	C
45	ATOM	985	CB	TYR	B	234	34.309	40.134	71.338	1.00	33.43	B	C
	ATOM	986	CG	TYR	B	234	35.824	40.082	71.337	1.00	32.69	B	C
	ATOM	987	CD1	TYR	B	234	36.517	39.459	72.375	1.00	32.98	B	C
	ATOM	988	CE1	TYR	B	234	37.916	39.424	72.396	1.00	32.99	B	C
	ATOM	989	CD2	TYR	B	234	36.570	40.674	70.311	1.00	31.95	B	C
50	ATOM	990	CE2	TYR	B	234	37.971	40.645	70.322	1.00	31.94	B	C
	ATOM	991	CZ	TYR	B	234	38.635	40.019	71.368	1.00	32.84	B	C
	ATOM	992	OH	TYR	B	234	40.012	39.987	71.398	1.00	34.17	B	O
	ATOM	993	C	TYR	B	234	32.214	41.412	71.897	1.00	33.12	B	C
	ATOM	994	O	TYR	B	234	31.445	41.056	72.793	1.00	32.15	B	O
55	ATOM	995	N	PRO	B	235	31.766	41.877	70.718	1.00	31.02	B	N
	ATOM	996	CD	PRO	B	235	32.584	42.317	69.577	1.00	30.54	B	C
	ATOM	997	CA	PRO	B	235	30.331	41.986	70.435	1.00	29.49	B	C
	ATOM	998	CB	PRO	B	235	30.279	42.576	69.026	1.00	30.76	B	C
	ATOM	999	CG	PRO	B	235	31.636	43.155	68.792	1.00	29.97	B	C
60	ATOM	1000	C	PRO	B	235	29.617	40.646	70.501	1.00	27.19	B	C
	ATOM	1001	O	PRO	B	235	30.199	39.615	70.203	1.00	27.88	B	O
	ATOM	1002	N	ASN	B	236	28.349	40.673	70.884	1.00	26.49	B	N
	ATOM	1003	CA	ASN	B	236	27.544	39.464	70.983	1.00	26.86	B	C
	ATOM	1004	CB	ASN	B	236	27.060	39.282	72.419	1.00	27.30	B	C
65	ATOM	1005	CG	ASN	B	236	26.349	37.968	72.632	1.00	28.72	B	C
	ATOM	1006	OD1	ASN	B	236	25.542	37.539	71.803	1.00	30.48	B	O
	ATOM	1007	ND2	ASN	B	236	26.641	37.316	73.751	1.00	29.98	B	N
	ATOM	1008	C	ASN	B	236	26.351	39.616	70.043	1.00	27.74	B	C
	ATOM	1009	O	ASN	B	236	25.336	40.218	70.407	1.00	27.96	B	O
	ATOM	1010	N	MET	B	237	26.468	39.061	68.840	1.00	26.94	B	N

	ATOM	1011	CA	MET	B	237	25.407	39.181	67.853	1.00	27.71	B	C
	ATOM	1012	CB	MET	B	237	25.820	38.547	66.534	1.00	30.70	B	C
	ATOM	1013	CG	MET	B	237	24.916	38.980	65.395	1.00	33.93	B	C
5	ATOM	1014	SD	MET	B	237	25.529	38.479	63.804	1.00	40.48	B	S
	ATOM	1015	CE	MET	B	237	24.454	37.062	63.472	1.00	38.91	B	C
	ATOM	1016	C	MET	B	237	24.042	38.643	68.237	1.00	27.40	B	C
	ATOM	1017	O	MET	B	237	23.027	39.239	67.887	1.00	27.65	B	O
	ATOM	1018	N	GLU	B	238	23.999	37.520	68.939	1.00	27.87	B	N
10	ATOM	1019	CA	GLU	B	238	22.716	36.959	69.336	1.00	29.78	B	C
	ATOM	1020	CB	GLU	B	238	22.912	35.626	70.060	1.00	34.45	B	C
	ATOM	1021	CG	GLU	B	238	21.701	34.710	69.958	1.00	43.24	B	C
	ATOM	1022	CD	GLU	B	238	21.810	33.474	70.840	1.00	48.24	B	C
	ATOM	1023	OE1	GLU	B	238	20.796	33.112	71.485	1.00	49.98	B	O
	ATOM	1024	OE2	GLU	B	238	22.906	32.866	70.884	1.00	50.61	B	O
15	ATOM	1025	C	GLU	B	238	21.987	37.938	70.247	1.00	27.75	B	C
	ATOM	1026	O	GLU	B	238	20.769	38.120	70.149	1.00	24.73	B	O
	ATOM	1027	N	GLU	B	239	22.747	38.567	71.133	1.00	25.42	B	N
	ATOM	1028	CA	GLU	B	239	22.193	39.534	72.062	1.00	25.49	B	C
20	ATOM	1029	CB	GLU	B	239	23.265	39.917	73.086	1.00	27.17	B	C
	ATOM	1030	CG	GLU	B	239	22.831	40.924	74.142	1.00	29.65	B	C
	ATOM	1031	CD	GLU	B	239	23.974	41.302	75.065	1.00	29.67	B	C
	ATOM	1032	OE1	GLU	B	239	23.881	42.342	75.747	1.00	31.26	B	O
	ATOM	1033	OE2	GLU	B	239	24.971	40.554	75.105	1.00	31.42	B	O
	ATOM	1034	C	GLU	B	239	21.731	40.763	71.285	1.00	23.51	B	C
25	ATOM	1035	O	GLU	B	239	20.653	41.302	71.535	1.00	22.40	B	O
	ATOM	1036	N	PHE	B	240	22.556	41.200	70.337	1.00	22.94	B	N
	ATOM	1037	CA	PHE	B	240	22.229	42.365	69.523	1.00	22.43	B	C
	ATOM	1038	CB	PHE	B	240	23.343	42.654	68.517	1.00	21.57	B	C
	ATOM	1039	CG	PHE	B	240	23.090	43.868	67.676	1.00	22.29	B	C
30	ATOM	1040	CD1	PHE	B	240	22.199	43.822	66.614	1.00	22.43	B	C
	ATOM	1041	CD2	PHE	B	240	23.731	45.067	67.956	1.00	24.08	B	C
	ATOM	1042	CE1	PHE	B	240	21.946	44.955	65.841	1.00	22.53	B	C
	ATOM	1043	CE2	PHE	B	240	23.485	46.207	67.189	1.00	23.84	B	C
	ATOM	1044	CZ	PHE	B	240	22.589	46.147	66.129	1.00	21.86	B	C
35	ATOM	1045	C	PHE	B	240	20.927	42.150	68.772	1.00	21.60	B	C
	ATOM	1046	O	PHE	B	240	20.060	43.021	68.747	1.00	20.48	B	O
	ATOM	1047	N	LEU	B	241	20.799	40.981	68.158	1.00	22.14	B	N
	ATOM	1048	CA	LEU	B	241	19.601	40.648	67.403	1.00	22.98	B	C
	ATOM	1049	CB	LEU	B	241	19.817	39.338	66.642	1.00	22.46	B	C
40	ATOM	1050	CG	LEU	B	241	20.833	39.430	65.493	1.00	24.93	B	C
	ATOM	1051	CD1	LEU	B	241	21.155	38.041	64.951	1.00	23.99	B	C
	ATOM	1052	CD2	LEU	B	241	20.270	40.314	64.391	1.00	24.24	B	C
	ATOM	1053	C	LEU	B	241	18.365	40.545	68.300	1.00	24.32	B	C
	ATOM	1054	O	LEU	B	241	17.248	40.839	67.869	1.00	24.13	B	O
45	ATOM	1055	N	ASP	B	242	18.557	40.131	69.550	1.00	25.33	B	N
	ATOM	1056	CA	ASP	B	242	17.428	40.017	70.471	1.00	26.80	B	C
	ATOM	1057	CB	ASP	B	242	17.840	39.286	71.754	1.00	31.97	B	C
	ATOM	1058	CG	ASP	B	242	17.997	37.788	71.550	1.00	38.73	B	C
	ATOM	1059	OD1	ASP	B	242	17.485	37.257	70.534	1.00	42.52	B	O
50	ATOM	1060	OD2	ASP	B	242	18.638	37.139	72.409	1.00	42.65	B	O
	ATOM	1061	C	ASP	B	242	16.910	41.402	70.828	1.00	24.89	B	C
	ATOM	1062	O	ASP	B	242	15.705	41.639	70.844	1.00	23.48	B	O
	ATOM	1063	N	ASP	B	243	17.838	42.310	71.113	1.00	23.63	B	N
	ATOM	1064	CA	ASP	B	243	17.495	43.678	71.475	1.00	22.83	B	C
55	ATOM	1065	CB	ASP	B	243	18.744	44.417	71.963	1.00	22.53	B	C
	ATOM	1066	CG	ASP	B	243	19.214	43.926	73.321	1.00	22.59	B	C
	ATOM	1067	OD1	ASP	B	243	18.390	43.339	74.048	1.00	21.44	B	O
	ATOM	1068	OD2	ASP	B	243	20.398	44.122	73.664	1.00	22.39	B	O
	ATOM	1069	C	ASP	B	243	16.880	44.415	70.296	1.00	22.51	B	C
60	ATOM	1070	O	ASP	B	243	15.953	45.206	70.468	1.00	22.08	B	O
	ATOM	1071	N	MET	B	244	17.402	44.144	69.102	1.00	22.14	B	N
	ATOM	1072	CA	MET	B	244	16.914	44.766	67.875	1.00	20.87	B	C
	ATOM	1073	CB	MET	B	244	17.810	44.367	66.706	1.00	19.60	B	C
	ATOM	1074	CG	MET	B	244	17.384	44.941	65.375	1.00	20.21	B	C
65	ATOM	1075	SD	MET	B	244	18.199	44.103	64.004	1.00	24.14	B	S
	ATOM	1076	CE	MET	B	244	17.281	42.563	63.937	1.00	21.33	B	C
	ATOM	1077	C	MET	B	244	15.480	44.336	67.589	1.00	20.68	B	C
	ATOM	1078	O	MET	B	244	14.629	45.149	67.222	1.00	20.83	B	O

	ATOM	1079	N	ASN	B	245	15.218	43.047	67.764	1.00	20.64	B	N
	ATOM	1080	CA	ASN	B	245	13.890	42.501	67.524	1.00	22.09	B	C
	ATOM	1081	CB	ASN	B	245	13.934	40.979	67.622	1.00	21.79	B	C
	ATOM	1082	CG	ASN	B	245	14.498	40.340	66.373	1.00	24.03	B	C
5	ATOM	1083	OD1	ASN	B	245	14.145	40.722	65.258	1.00	24.38	B	O
	ATOM	1084	ND2	ASN	B	245	15.382	39.367	66.552	1.00	25.22	B	N
	ATOM	1085	C	ASN	B	245	12.872	43.062	68.511	1.00	22.71	B	C
	ATOM	1086	O	ASN	B	245	11.687	43.204	68.191	1.00	23.40	B	O
	ATOM	1087	N	PHE	B	246	13.339	43.379	69.716	1.00	22.39	B	N
10	ATOM	1088	CA	PHE	B	246	12.471	43.935	70.742	1.00	20.20	B	C
	ATOM	1089	CB	PHE	B	246	13.169	43.922	72.104	1.00	20.00	B	C
	ATOM	1090	CG	PHE	B	246	12.679	44.988	73.038	1.00	21.63	B	C
	ATOM	1091	CD1	PHE	B	246	13.394	46.167	73.202	1.00	21.69	B	C
	ATOM	1092	CD2	PHE	B	246	11.485	44.829	73.723	1.00	23.57	B	C
15	ATOM	1093	CE1	PHE	B	246	12.928	47.168	74.030	1.00	23.22	B	C
	ATOM	1094	CE2	PHE	B	246	11.010	45.829	74.558	1.00	24.29	B	C
	ATOM	1095	CZ	PHE	B	246	11.733	46.999	74.711	1.00	24.26	B	C
	ATOM	1096	C	PHE	B	246	12.111	45.366	70.368	1.00	18.58	B	C
	ATOM	1097	O	PHE	B	246	10.952	45.764	70.459	1.00	18.79	B	O
20	ATOM	1098	N	LEU	B	247	13.112	46.139	69.954	1.00	17.51	B	N
	ATOM	1099	CA	LEU	B	247	12.884	47.525	69.565	1.00	18.19	B	C
	ATOM	1100	CB	LEU	B	247	14.219	48.235	69.330	1.00	16.40	B	C
	ATOM	1101	CG	LEU	B	247	15.020	48.531	70.604	1.00	15.74	B	C
	ATOM	1102	CD1	LEU	B	247	16.402	49.066	70.245	1.00	12.05	B	C
25	ATOM	1103	CD2	LEU	B	247	14.261	49.541	71.456	1.00	12.60	B	C
	ATOM	1104	C	LEU	B	247	12.018	47.581	68.306	1.00	19.22	B	C
	ATOM	1105	O	LEU	B	247	11.178	48.465	68.160	1.00	19.67	B	O
	ATOM	1106	N	LEU	B	248	12.216	46.625	67.402	1.00	21.15	B	N
	ATOM	1107	CA	LEU	B	248	11.425	46.583	66.180	1.00	21.76	B	C
30	ATOM	1108	CB	LEU	B	248	11.867	45.409	65.299	1.00	22.42	B	C
	ATOM	1109	CG	LEU	B	248	12.428	45.662	63.890	1.00	24.19	B	C
	ATOM	1110	CD1	LEU	B	248	12.934	47.091	63.733	1.00	25.84	B	C
	ATOM	1111	CD2	LEU	B	248	13.553	44.674	63.631	1.00	22.53	B	C
	ATOM	1112	C	LEU	B	248	9.959	46.429	66.573	1.00	22.08	B	C
35	ATOM	1113	O	LEU	B	248	9.083	47.088	66.015	1.00	24.50	B	O
	ATOM	1114	N	ALA	B	249	9.694	45.569	67.549	1.00	21.15	B	N
	ATOM	1115	CA	ALA	B	249	8.328	45.345	68.006	1.00	22.38	B	C
	ATOM	1116	CB	ALA	B	249	8.279	44.122	68.923	1.00	22.67	B	C
	ATOM	1117	C	ALA	B	249	7.781	46.572	68.740	1.00	23.39	B	C
40	ATOM	1118	O	ALA	B	249	6.645	47.005	68.517	1.00	23.91	B	O
	ATOM	1119	N	LEU	B	250	8.608	47.132	69.614	1.00	24.06	B	N
	ATOM	1120	CA	LEU	B	250	8.227	48.293	70.399	1.00	22.02	B	C
	ATOM	1121	CB	LEU	B	250	9.400	48.725	71.280	1.00	20.82	B	C
	ATOM	1122	CG	LEU	B	250	9.115	49.845	72.279	1.00	18.57	B	C
45	ATOM	1123	CD1	LEU	B	250	8.305	49.284	73.420	1.00	16.57	B	C
	ATOM	1124	CD2	LEU	B	250	10.413	50.452	72.779	1.00	17.76	B	C
	ATOM	1125	C	LEU	B	250	7.750	49.474	69.564	1.00	24.02	B	C
	ATOM	1126	O	LEU	B	250	6.656	49.984	69.799	1.00	24.26	B	O
	ATOM	1127	N	ILE	B	251	8.555	49.914	68.594	1.00	23.37	B	N
50	ATOM	1128	CA	ILE	B	251	8.171	51.064	67.773	1.00	24.18	B	C
	ATOM	1129	CB	ILE	B	251	9.305	51.501	66.812	1.00	23.82	B	C
	ATOM	1130	CG2	ILE	B	251	10.596	51.676	67.580	1.00	21.78	B	C
	ATOM	1131	CG1	ILE	B	251	9.479	50.476	65.694	1.00	23.76	B	C
	ATOM	1132	CD1	ILE	B	251	10.601	50.824	64.740	1.00	24.98	B	C
55	ATOM	1133	C	ILE	B	251	6.907	50.837	66.953	1.00	24.08	B	C
	ATOM	1134	O	ILE	B	251	6.318	51.789	66.435	1.00	25.12	B	O
	ATOM	1135	N	ALA	B	252	6.484	49.581	66.850	1.00	23.78	B	N
	ATOM	1136	CA	ALA	B	252	5.294	49.241	66.092	1.00	24.71	B	C
	ATOM	1137	CB	ALA	B	252	5.564	48.021	65.226	1.00	24.30	B	C
60	ATOM	1138	C	ALA	B	252	4.095	48.988	66.996	1.00	26.09	B	C
	ATOM	1139	O	ALA	B	252	2.978	48.799	66.513	1.00	27.26	B	O
	ATOM	1140	N	GLN	B	253	4.330	48.991	68.307	1.00	27.10	B	N
	ATOM	1141	CA	GLN	B	253	3.273	48.766	69.300	1.00	28.60	B	C
	ATOM	1142	CB	GLN	B	253	3.889	48.571	70.680	1.00	31.94	B	C
65	ATOM	1143	CG	GLN	B	253	3.430	47.319	71.393	1.00	34.77	B	C
	ATOM	1144	CD	GLN	B	253	4.424	46.879	72.442	1.00	36.71	B	C
	ATOM	1145	OE1	GLN	B	253	5.089	45.854	72.292	1.00	39.94	B	O
	ATOM	1146	NE2	GLN	B	253	4.538	47.655	73.512	1.00	38.26	B	N

	ATOM	1147	C	GLN	B	253	2.267	49.913	69.368	1.00	27.10	B	C
	ATOM	1148	O	GLN	B	253	2.639	51.067	69.584	1.00	25.95	B	O
	ATOM	1149	N	GLY	B	254	0.991	49.574	69.209	1.00	26.81	B	N
5	ATOM	1150	CA	GLY	B	254	-0.072	50.569	69.216	1.00	25.22	B	C
	ATOM	1151	C	GLY	B	254	-0.093	51.509	70.399	1.00	24.02	B	C
	ATOM	1152	O	GLY	B	254	-0.010	52.721	70.222	1.00	25.83	B	O
	ATOM	1153	N	PRO	B	255	-0.227	50.982	71.624	1.00	23.48	B	N
	ATOM	1154	CD	PRO	B	255	-0.387	49.551	71.932	1.00	23.33	B	C
10	ATOM	1155	CA	PRO	B	255	-0.260	51.804	72.839	1.00	22.12	B	C
	ATOM	1156	CB	PRO	B	255	-0.429	50.782	73.958	1.00	21.81	B	C
	ATOM	1157	CG	PRO	B	255	-1.030	49.582	73.279	1.00	23.18	B	C
	ATOM	1158	C	PRO	B	255	0.986	52.662	73.033	1.00	21.55	B	C
	ATOM	1159	O	PRO	B	255	0.894	53.787	73.512	1.00	22.17	B	O
15	ATOM	1160	N	VAL	B	256	2.149	52.131	72.668	1.00	20.82	B	N
	ATOM	1161	CA	VAL	B	256	3.393	52.879	72.806	1.00	21.02	B	C
	ATOM	1162	CB	VAL	B	256	4.624	51.979	72.544	1.00	20.94	B	C
	ATOM	1163	CG1	VAL	B	256	5.910	52.751	72.828	1.00	20.04	B	C
	ATOM	1164	CG2	VAL	B	256	4.552	50.735	73.415	1.00	18.98	B	C
20	ATOM	1165	C	VAL	B	256	3.405	54.047	71.819	1.00	21.26	B	C
	ATOM	1166	O	VAL	B	256	3.883	55.139	72.130	1.00	22.37	B	O
	ATOM	1167	N	LYS	B	257	2.864	53.804	70.631	1.00	22.01	B	N
	ATOM	1168	CA	LYS	B	257	2.798	54.819	69.584	1.00	23.53	B	C
	ATOM	1169	CB	LYS	B	257	2.229	54.212	68.289	1.00	24.04	B	C
25	ATOM	1170	CG	LYS	B	257	3.281	53.831	67.254	1.00	25.83	B	C
	ATOM	1171	CD	LYS	B	257	2.906	52.560	66.514	1.00	28.08	B	C
	ATOM	1172	CE	LYS	B	257	2.016	52.849	65.314	1.00	30.19	B	C
	ATOM	1173	NZ	LYS	B	257	0.961	51.794	65.142	1.00	34.14	B	N
	ATOM	1174	C	LYS	B	257	1.913	55.972	70.042	1.00	21.25	B	C
30	ATOM	1175	O	LYS	B	257	2.243	57.140	69.841	1.00	21.33	B	O
	ATOM	1176	N	THR	B	258	0.793	55.636	70.669	1.00	19.73	B	N
	ATOM	1177	CA	THR	B	258	-0.150	56.641	71.140	1.00	20.47	B	C
	ATOM	1178	CB	THR	B	258	-1.460	55.987	71.583	1.00	21.66	B	C
	ATOM	1179	OG1	THR	B	258	-2.088	55.391	70.446	1.00	26.56	B	O
35	ATOM	1180	CG2	THR	B	258	-2.405	57.022	72.184	1.00	24.36	B	C
	ATOM	1181	C	THR	B	258	0.403	57.463	72.297	1.00	20.10	B	C
	ATOM	1182	O	THR	B	258	0.328	58.691	72.292	1.00	21.30	B	O
	ATOM	1183	N	TYR	B	259	0.956	56.782	73.291	1.00	18.20	B	N
	ATOM	1184	CA	TYR	B	259	1.517	57.467	74.439	1.00	15.69	B	C
40	ATOM	1185	CB	TYR	B	259	2.104	56.450	75.423	1.00	16.42	B	C
	ATOM	1186	CG	TYR	B	259	2.796	57.097	76.598	1.00	18.94	B	C
	ATOM	1187	CD1	TYR	B	259	4.186	57.203	76.643	1.00	18.75	B	C
	ATOM	1188	CE1	TYR	B	259	4.822	57.836	77.707	1.00	19.68	B	C
	ATOM	1189	CD2	TYR	B	259	2.056	57.640	77.653	1.00	19.34	B	C
45	ATOM	1190	CE2	TYR	B	259	2.680	58.274	78.719	1.00	19.48	B	C
	ATOM	1191	CZ	TYR	B	259	4.060	58.371	78.742	1.00	20.47	B	C
	ATOM	1192	OH	TYR	B	259	4.676	59.010	79.792	1.00	20.54	B	O
	ATOM	1193	C	TYR	B	259	2.602	58.442	73.993	1.00	14.43	B	C
	ATOM	1194	O	TYR	B	259	2.544	59.632	74.301	1.00	13.39	B	O
50	ATOM	1195	N	THR	B	260	3.591	57.935	73.261	1.00	13.65	B	N
	ATOM	1196	CA	THR	B	260	4.687	58.780	72.796	1.00	14.98	B	C
	ATOM	1197	CB	THR	B	260	5.762	57.945	72.036	1.00	16.16	B	C
	ATOM	1198	OG1	THR	B	260	5.153	57.204	70.967	1.00	13.55	B	O
	ATOM	1199	CG2	THR	B	260	6.435	56.965	72.996	1.00	13.81	B	C
55	ATOM	1200	C	THR	B	260	4.205	59.931	71.915	1.00	12.93	B	C
	ATOM	1201	O	THR	B	260	4.735	61.031	71.976	1.00	14.73	B	O
	ATOM	1202	N	HIS	B	261	3.188	59.677	71.104	1.00	13.89	B	N
	ATOM	1203	CA	HIS	B	261	2.659	60.711	70.228	1.00	16.36	B	C
	ATOM	1204	CB	HIS	B	261	1.575	60.135	69.317	1.00	17.57	B	C
60	ATOM	1205	CG	HIS	B	261	1.038	61.125	68.330	1.00	20.36	B	C
	ATOM	1206	CD2	HIS	B	261	1.667	61.892	67.409	1.00	19.74	B	C
	ATOM	1207	ND1	HIS	B	261	-0.300	61.445	68.248	1.00	19.43	B	N
	ATOM	1208	CE1	HIS	B	261	-0.473	62.367	67.321	1.00	20.12	B	C
	ATOM	1209	NE2	HIS	B	261	0.705	62.656	66.797	1.00	22.10	B	N
65	ATOM	1210	C	HIS	B	261	2.078	61.845	71.057	1.00	15.84	B	C
	ATOM	1211	O	HIS	B	261	2.322	63.022	70.787	1.00	15.81	B	O
	ATOM	1212	N	ARG	B	262	1.299	61.479	72.068	1.00	17.06	B	N
	ATOM	1213	CA	ARG	B	262	0.682	62.455	72.961	1.00	17.70	B	C
	ATOM	1214	CB	ARG	B	262	-0.217	61.734	73.966	1.00	20.18	B	C

	ATOM	1215	CG	ARG	B	262	-1.383	62.569	74.457	1.00	29.53	B	C
	ATOM	1216	CD	ARG	B	262	-2.172	61.848	75.541	1.00	33.85	B	C
	ATOM	1217	NE	ARG	B	262	-2.446	60.449	75.211	1.00	38.06	B	N
	ATOM	1218	CZ	ARG	B	262	-2.168	59.429	76.020	1.00	40.88	B	C
5	ATOM	1219	NH1	ARG	B	262	-1.608	59.657	77.204	1.00	41.21	B	N
	ATOM	1220	NH2	ARG	B	262	-2.451	58.184	75.652	1.00	41.01	B	N
	ATOM	1221	C	ARG	B	262	1.736	63.284	73.701	1.00	14.39	B	C
	ATOM	1222	O	ARG	B	262	1.627	64.505	73.777	1.00	14.91	B	O
	ATOM	1223	N	ARG	B	263	2.761	62.625	74.233	1.00	11.59	B	N
10	ATOM	1224	CA	ARG	B	263	3.813	63.331	74.956	1.00	11.65	B	C
	ATOM	1225	CB	ARG	B	263	4.817	62.330	75.534	1.00	11.59	B	C
	ATOM	1226	CG	ARG	B	263	4.228	61.346	76.569	1.00	12.75	B	C
	ATOM	1227	CD	ARG	B	263	3.330	62.026	77.624	1.00	9.55	B	C
	ATOM	1228	NE	ARG	B	263	3.986	63.150	78.285	1.00	10.16	B	N
15	ATOM	1229	CZ	ARG	B	263	3.337	64.125	78.913	1.00	11.09	B	C
	ATOM	1230	NH1	ARG	B	263	2.018	64.111	78.967	1.00	13.12	B	N
	ATOM	1231	NH2	ARG	B	263	4.002	65.132	79.470	1.00	11.79	B	N
	ATOM	1232	C	ARG	B	263	4.534	64.344	74.063	1.00	13.00	B	C
	ATOM	1233	O	ARG	B	263	4.871	65.448	74.502	1.00	12.77	B	O
20	ATOM	1234	N	LEU	B	264	4.760	63.975	72.804	1.00	13.53	B	N
	ATOM	1235	CA	LEU	B	264	5.427	64.865	71.851	1.00	13.37	B	C
	ATOM	1236	CB	LEU	B	264	5.731	64.113	70.547	1.00	10.89	B	C
	ATOM	1237	CG	LEU	B	264	6.863	63.084	70.680	1.00	8.87	B	C
	ATOM	1238	CD1	LEU	B	264	6.834	62.118	69.516	1.00	8.25	B	C
25	ATOM	1239	CD2	LEU	B	264	8.207	63.801	70.755	1.00	7.81	B	C
	ATOM	1240	C	LEU	B	264	4.557	66.091	71.575	1.00	12.79	B	C
	ATOM	1241	O	LEU	B	264	5.057	67.204	71.422	1.00	12.60	B	O
	ATOM	1242	N	LYS	B	265	3.249	65.884	71.518	1.00	15.38	B	N
	ATOM	1243	CA	LYS	B	265	2.321	66.987	71.295	1.00	16.13	B	C
30	ATOM	1244	CB	LYS	B	265	0.890	66.463	71.191	1.00	18.28	B	C
	ATOM	1245	CG	LYS	B	265	0.482	66.027	69.791	1.00	24.04	B	C
	ATOM	1246	CD	LYS	B	265	-0.700	65.057	69.830	1.00	27.74	B	C
	ATOM	1247	CE	LYS	B	265	-2.037	65.786	69.993	1.00	29.63	B	C
	ATOM	1248	NZ	LYS	B	265	-3.119	64.921	70.577	1.00	30.34	B	N
35	ATOM	1249	C	LYS	B	265	2.436	67.929	72.489	1.00	17.37	B	C
	ATOM	1250	O	LYS	B	265	2.447	69.153	72.326	1.00	18.75	B	O
	ATOM	1251	N	PHE	B	266	2.527	67.355	73.690	1.00	16.71	B	N
	ATOM	1252	CA	PHE	B	266	2.651	68.167	74.898	1.00	15.39	B	C
	ATOM	1253	CB	PHE	B	266	2.586	67.296	76.162	1.00	16.18	B	C
40	ATOM	1254	CG	PHE	B	266	2.734	68.085	77.437	1.00	15.85	B	C
	ATOM	1255	CD1	PHE	B	266	1.654	68.787	77.965	1.00	14.94	B	C
	ATOM	1256	CD2	PHE	B	266	3.969	68.183	78.073	1.00	14.91	B	C
	ATOM	1257	CE1	PHE	B	266	1.803	69.581	79.105	1.00	14.36	B	C
	ATOM	1258	CE2	PHE	B	266	4.123	68.976	79.215	1.00	16.04	B	C
45	ATOM	1259	CZ	PHE	B	266	3.039	69.676	79.728	1.00	13.75	B	C
	ATOM	1260	C	PHE	B	266	3.964	68.954	74.884	1.00	13.64	B	C
	ATOM	1261	O	PHE	B	266	3.988	70.147	75.190	1.00	13.91	B	O
	ATOM	1262	N	LEU	B	267	5.054	68.282	74.530	1.00	12.68	B	N
	ATOM	1263	CA	LEU	B	267	6.362	68.924	74.463	1.00	12.41	B	C
50	ATOM	1264	CB	LEU	B	267	7.391	67.930	73.928	1.00	13.00	B	C
	ATOM	1265	CG	LEU	B	267	8.440	67.268	74.836	1.00	13.77	B	C
	ATOM	1266	CD1	LEU	B	267	8.051	67.364	76.298	1.00	12.21	B	C
	ATOM	1267	CD2	LEU	B	267	8.601	65.819	74.412	1.00	11.10	B	C
	ATOM	1268	C	LEU	B	267	6.304	70.152	73.543	1.00	14.15	B	C
55	ATOM	1269	O	LEU	B	267	6.936	71.181	73.808	1.00	13.97	B	O
	ATOM	1270	N	SER	B	268	5.530	70.029	72.464	1.00	14.24	B	N
	ATOM	1271	CA	SER	B	268	5.358	71.095	71.481	1.00	11.86	B	C
	ATOM	1272	CB	SER	B	268	4.655	70.535	70.245	1.00	12.78	B	C
	ATOM	1273	OG	SER	B	268	4.561	71.508	69.221	1.00	15.89	B	O
60	ATOM	1274	C	SER	B	268	4.552	72.268	72.041	1.00	11.50	B	C
	ATOM	1275	O	SER	B	268	5.009	73.409	72.020	1.00	11.13	B	O
	ATOM	1276	N	SER	B	269	3.349	71.991	72.537	1.00	10.78	B	N
	ATOM	1277	CA	SER	B	269	2.506	73.044	73.106	1.00	10.56	B	C
	ATOM	1278	CB	SER	B	269	1.169	72.470	73.562	1.00	10.44	B	C
65	ATOM	1279	OG	SER	B	269	0.454	71.891	72.490	1.00	11.52	B	O
	ATOM	1280	C	SER	B	269	3.183	73.731	74.294	1.00	12.18	B	C
	ATOM	1281	O	SER	B	269	3.113	74.953	74.438	1.00	12.67	B	O
	ATOM	1282	N	LYS	B	270	3.836	72.952	75.153	1.00	12.94	B	N

	ATOM	1283	CA	LYS	B	270	4.501	73.544	76.303	1.00	13.84	B	C
	ATOM	1284	CB	LYS	B	270	5.205	72.476	77.152	1.00	14.79	B	C
	ATOM	1285	CG	LYS	B	270	5.350	72.883	78.625	1.00	12.65	B	C
	ATOM	1286	CD	LYS	B	270	6.387	72.045	79.357	1.00	10.48	B	C
5	ATOM	1287	CE	LYS	B	270	6.827	72.719	80.660	1.00	11.37	B	C
	ATOM	1288	NZ	LYS	B	270	7.892	71.932	81.374	1.00	12.57	B	N
	ATOM	1289	C	LYS	B	270	5.505	74.600	75.879	1.00	13.38	B	C
	ATOM	1290	O	LYS	B	270	5.560	75.678	76.465	1.00	14.81	B	O
10	ATOM	1291	N	PHE	B	271	6.302	74.308	74.858	1.00	14.85	B	N
	ATOM	1292	CA	PHE	B	271	7.282	75.292	74.405	1.00	14.12	B	C
	ATOM	1293	CB	PHE	B	271	8.159	74.729	73.281	1.00	12.55	B	C
	ATOM	1294	CG	PHE	B	271	9.293	75.635	72.908	1.00	11.13	B	C
	ATOM	1295	CD1	PHE	B	271	10.445	75.684	73.692	1.00	10.79	B	C
	ATOM	1296	CD2	PHE	B	271	9.187	76.493	71.814	1.00	11.27	B	C
15	ATOM	1297	CE1	PHE	B	271	11.478	76.581	73.395	1.00	11.03	B	C
	ATOM	1298	CE2	PHE	B	271	10.214	77.395	71.508	1.00	10.94	B	C
	ATOM	1299	CZ	PHE	B	271	11.361	77.439	72.303	1.00	9.40	B	C
	ATOM	1300	C	PHE	B	271	6.624	76.577	73.922	1.00	14.31	B	C
20	ATOM	1301	O	PHE	B	271	7.131	77.671	74.162	1.00	16.41	B	O
	ATOM	1302	N	GLN	B	272	5.496	76.440	73.236	1.00	16.51	B	N
	ATOM	1303	CA	GLN	B	272	4.772	77.595	72.709	1.00	17.54	B	C
	ATOM	1304	CB	GLN	B	272	3.573	77.124	71.887	1.00	18.70	B	C
	ATOM	1305	CG	GLN	B	272	3.760	77.300	70.396	1.00	25.67	B	C
	ATOM	1306	CD	GLN	B	272	3.947	75.984	69.673	1.00	29.02	B	C
25	ATOM	1307	OE1	GLN	B	272	2.979	75.362	69.222	1.00	29.54	B	O
	ATOM	1308	NE2	GLN	B	272	5.200	75.550	69.553	1.00	30.92	B	N
	ATOM	1309	C	GLN	B	272	4.296	78.527	73.821	1.00	15.82	B	C
	ATOM	1310	O	GLN	B	272	4.399	79.748	73.711	1.00	14.46	B	O
30	ATOM	1311	N	VAL	B	273	3.759	77.951	74.889	1.00	14.46	B	N
	ATOM	1312	CA	VAL	B	273	3.290	78.765	75.993	1.00	13.52	B	C
	ATOM	1313	CB	VAL	B	273	2.450	77.926	76.981	1.00	13.56	B	C
	ATOM	1314	CG1	VAL	B	273	2.067	78.767	78.191	1.00	14.77	B	C
	ATOM	1315	CG2	VAL	B	273	1.199	77.413	76.279	1.00	13.24	B	C
	ATOM	1316	C	VAL	B	273	4.498	79.380	76.698	1.00	13.45	B	C
35	ATOM	1317	O	VAL	B	273	4.471	80.551	77.079	1.00	14.11	B	O
	ATOM	1318	N	HIS	B	274	5.566	78.599	76.851	1.00	14.15	B	N
	ATOM	1319	CA	HIS	B	274	6.776	79.098	77.499	1.00	15.36	B	C
	ATOM	1320	CB	HIS	B	274	7.854	78.011	77.539	1.00	12.81	B	C
	ATOM	1321	CG	HIS	B	274	9.228	78.534	77.828	1.00	11.79	B	C
40	ATOM	1322	CD2	HIS	B	274	10.318	78.667	77.036	1.00	11.82	B	C
	ATOM	1323	ND1	HIS	B	274	9.598	79.008	79.068	1.00	12.44	B	N
	ATOM	1324	CE1	HIS	B	274	10.856	79.412	79.027	1.00	13.35	B	C
	ATOM	1325	NE2	HIS	B	274	11.316	79.215	77.805	1.00	13.41	B	N
	ATOM	1326	C	HIS	B	274	7.313	80.308	76.741	1.00	19.06	B	C
45	ATOM	1327	O	HIS	B	274	7.617	81.350	77.331	1.00	19.47	B	O
	ATOM	1328	N	GLN	B	275	7.424	80.171	75.426	1.00	21.40	B	N
	ATOM	1329	CA	GLN	B	275	7.940	81.256	74.605	1.00	24.06	B	C
	ATOM	1330	CB	GLN	B	275	8.123	80.793	73.157	1.00	28.45	B	C
	ATOM	1331	CG	GLN	B	275	9.576	80.802	72.702	1.00	36.28	B	C
50	ATOM	1332	CD	GLN	B	275	9.717	80.783	71.182	1.00	41.53	B	C
	ATOM	1333	OE1	GLN	B	275	8.723	80.886	70.450	1.00	43.21	B	O
	ATOM	1334	NE2	GLN	B	275	10.958	80.655	70.700	1.00	41.01	B	N
	ATOM	1335	C	GLN	B	275	7.062	82.493	74.635	1.00	23.43	B	C
	ATOM	1336	O	GLN	B	275	7.564	83.612	74.750	1.00	24.46	B	O
55	ATOM	1337	N	MET	B	276	5.753	82.311	74.537	1.00	22.52	B	N
	ATOM	1338	CA	MET	B	276	4.880	83.469	74.542	1.00	24.42	B	C
	ATOM	1339	CB	MET	B	276	3.475	83.081	74.080	1.00	25.80	B	C
	ATOM	1340	CG	MET	B	276	2.579	82.491	75.138	1.00	28.27	B	C
	ATOM	1341	SD	MET	B	276	0.961	82.081	74.424	1.00	32.71	B	S
60	ATOM	1342	CE	MET	B	276	1.338	80.605	73.469	1.00	29.97	B	C
	ATOM	1343	C	MET	B	276	4.839	84.137	75.909	1.00	23.44	B	C
	ATOM	1344	O	MET	B	276	4.585	85.335	76.010	1.00	24.96	B	O
	ATOM	1345	N	LEU	B	277	5.122	83.371	76.955	1.00	21.65	B	N
65	ATOM	1346	CA	LEU	B	277	5.113	83.911	78.311	1.00	20.73	B	C
	ATOM	1347	CB	LEU	B	277	4.676	82.821	79.295	1.00	19.81	B	C
	ATOM	1348	CG	LEU	B	277	3.320	82.830	79.999	1.00	19.49	B	C
	ATOM	1349	CD1	LEU	B	277	2.258	83.535	79.179	1.00	18.74	B	C
	ATOM	1350	CD2	LEU	B	277	2.926	81.383	80.247	1.00	20.65	B	C

	ATOM	1351	C	LEU	B	277	6.473	84.459	78.771	1.00	19.63	B	C
	ATOM	1352	O	LEU	B	277	6.527	85.429	79.532	1.00	20.30	B	O
	ATOM	1353	N	ASN	B	278	7.565	83.852	78.299	1.00	17.69	B	N
	ATOM	1354	CA	ASN	B	278	8.900	84.247	78.749	1.00	16.29	B	C
5	ATOM	1355	CB	ASN	B	278	9.448	83.134	79.647	1.00	16.89	B	C
	ATOM	1356	CG	ASN	B	278	8.464	82.726	80.726	1.00	15.75	B	C
	ATOM	1357	OD1	ASN	B	278	7.987	81.590	80.755	1.00	17.44	B	O
	ATOM	1358	ND2	ASN	B	278	8.146	83.658	81.616	1.00	15.03	B	N
10	ATOM	1359	C	ASN	B	278	9.989	84.644	77.752	1.00	16.45	B	C
	ATOM	1360	O	ASN	B	278	11.139	84.860	78.158	1.00	14.67	B	O
	ATOM	1361	N	GLU	B	279	9.660	84.754	76.467	1.00	16.52	B	N
	ATOM	1362	CA	GLU	B	279	10.675	85.123	75.478	1.00	16.83	B	C
	ATOM	1363	CB	GLU	B	279	10.069	85.130	74.078	1.00	17.45	B	C
	ATOM	1364	CG	GLU	B	279	8.882	86.054	73.918	1.00	21.99	B	C
15	ATOM	1365	CD	GLU	B	279	8.402	86.120	72.490	1.00	25.29	B	C
	ATOM	1366	OE1	GLU	B	279	9.238	85.951	71.581	1.00	28.68	B	O
	ATOM	1367	OE2	GLU	B	279	7.193	86.340	72.273	1.00	29.26	B	O
	ATOM	1368	C	GLU	B	279	11.341	86.470	75.768	1.00	14.95	B	C
	ATOM	1369	O	GLU	B	279	12.545	86.621	75.583	1.00	15.57	B	O
20	ATOM	1370	N	MET	B	280	10.568	87.447	76.231	1.00	17.40	B	N
	ATOM	1371	CA	MET	B	280	11.126	88.766	76.544	1.00	18.96	B	C
	ATOM	1372	CB	MET	B	280	10.008	89.760	76.883	1.00	24.35	B	C
	ATOM	1373	CG	MET	B	280	9.192	90.251	75.680	1.00	32.73	B	C
	ATOM	1374	SD	MET	B	280	10.194	90.637	74.201	1.00	44.49	B	S
25	ATOM	1375	CE	MET	B	280	10.651	92.368	74.543	1.00	41.75	B	C
	ATOM	1376	C	MET	B	280	12.086	88.658	77.723	1.00	19.10	B	C
	ATOM	1377	O	MET	B	280	13.039	89.421	77.837	1.00	19.45	B	O
	ATOM	1378	N	ASP	B	281	11.826	87.691	78.594	1.00	18.91	B	N
	ATOM	1379	CA	ASP	B	281	12.651	87.462	79.765	1.00	18.06	B	C
30	ATOM	1380	CB	ASP	B	281	11.859	86.640	80.778	1.00	20.54	B	C
	ATOM	1381	CG	ASP	B	281	10.657	87.400	81.300	1.00	21.40	B	C
	ATOM	1382	OD1	ASP	B	281	9.508	86.988	81.023	1.00	24.91	B	O
	ATOM	1383	OD2	ASP	B	281	10.869	88.431	81.974	1.00	24.07	B	O
	ATOM	1384	C	ASP	B	281	13.958	86.778	79.395	1.00	17.29	B	C
35	ATOM	1385	O	ASP	B	281	15.008	87.099	79.946	1.00	15.69	B	O
	ATOM	1386	N	GLU	B	282	13.899	85.835	78.464	1.00	16.46	B	N
	ATOM	1387	CA	GLU	B	282	15.117	85.168	78.020	1.00	15.20	B	C
	ATOM	1388	CB	GLU	B	282	14.785	84.016	77.076	1.00	13.76	B	C
	ATOM	1389	CG	GLU	B	282	14.106	82.856	77.767	1.00	12.66	B	C
40	ATOM	1390	CD	GLU	B	282	13.620	81.815	76.794	1.00	14.68	B	C
	ATOM	1391	OE1	GLU	B	282	13.186	82.205	75.694	1.00	15.28	B	O
	ATOM	1392	OE2	GLU	B	282	13.672	80.612	77.121	1.00	13.70	B	O
	ATOM	1393	C	GLU	B	282	15.951	86.223	77.298	1.00	14.86	B	C
	ATOM	1394	O	GLU	B	282	17.165	86.299	77.477	1.00	14.20	B	O
45	ATOM	1395	N	LEU	B	283	15.289	87.057	76.500	1.00	15.13	B	N
	ATOM	1396	CA	LEU	B	283	15.981	88.113	75.766	1.00	15.78	B	C
	ATOM	1397	CB	LEU	B	283	14.987	88.927	74.932	1.00	16.31	B	C
	ATOM	1398	CG	LEU	B	283	15.420	89.546	73.588	1.00	18.96	B	C
	ATOM	1399	CD1	LEU	B	283	14.784	90.929	73.454	1.00	19.32	B	C
50	ATOM	1400	CD2	LEU	B	283	16.932	89.637	73.466	1.00	15.03	B	C
	ATOM	1401	C	LEU	B	283	16.710	89.049	76.726	1.00	16.87	B	C
	ATOM	1402	O	LEU	B	283	17.855	89.448	76.480	1.00	16.95	B	O
	ATOM	1403	N	LYS	B	284	16.039	89.410	77.815	1.00	17.96	B	N
	ATOM	1404	CA	LYS	B	284	16.629	90.301	78.808	1.00	17.30	B	C
55	ATOM	1405	CB	LYS	B	284	15.657	90.502	79.974	1.00	20.19	B	C
	ATOM	1406	CG	LYS	B	284	16.121	91.516	81.011	1.00	23.57	B	C
	ATOM	1407	CD	LYS	B	284	15.176	91.562	82.211	1.00	26.74	B	C
	ATOM	1408	CE	LYS	B	284	15.578	92.658	83.203	1.00	30.82	B	C
	ATOM	1409	NZ	LYS	B	284	14.615	92.788	84.343	1.00	34.27	B	N
60	ATOM	1410	C	LYS	B	284	17.967	89.760	79.317	1.00	15.67	B	C
	ATOM	1411	O	LYS	B	284	18.909	90.523	79.520	1.00	14.90	B	O
	ATOM	1412	N	GLU	B	285	18.057	88.446	79.513	1.00	15.87	B	N
	ATOM	1413	CA	GLU	B	285	19.299	87.838	79.985	1.00	14.91	B	C
	ATOM	1414	CB	GLU	B	285	19.135	86.330	80.174	1.00	14.00	B	C
65	ATOM	1415	CG	GLU	B	285	18.318	85.912	81.385	1.00	15.39	B	C
	ATOM	1416	CD	GLU	B	285	18.450	84.428	81.697	1.00	17.37	B	C
	ATOM	1417	OE1	GLU	B	285	19.568	83.988	82.051	1.00	19.28	B	O
	ATOM	1418	OE2	GLU	B	285	17.437	83.701	81.588	1.00	18.48	B	O

	ATOM	1419	C	GLU	B	285	20.433	88.084	78.994	1.00	17.20	B	C
	ATOM	1420	O	GLU	B	285	21.529	88.496	79.385	1.00	17.13	B	O
	ATOM	1421	N	LEU	B	286	20.170	87.832	77.709	1.00	19.65	B	N
5	ATOM	1422	CA	LEU	B	286	21.187	88.023	76.669	1.00	19.97	B	C
	ATOM	1423	CB	LEU	B	286	20.681	87.524	75.303	1.00	20.75	B	C
	ATOM	1424	CG	LEU	B	286	20.000	86.155	75.130	1.00	20.64	B	C
	ATOM	1425	CD1	LEU	B	286	20.502	85.549	73.840	1.00	22.32	B	C
	ATOM	1426	CD2	LEU	B	286	20.267	85.219	76.288	1.00	19.75	B	C
10	ATOM	1427	C	LEU	B	286	21.596	89.491	76.548	1.00	19.07	B	C
	ATOM	1428	O	LEU	B	286	22.779	89.805	76.415	1.00	18.43	B	O
	ATOM	1429	N	LYS	B	287	20.611	90.386	76.586	1.00	20.34	B	N
	ATOM	1430	CA	LYS	B	287	20.879	91.818	76.494	1.00	21.47	B	C
	ATOM	1431	CB	LYS	B	287	19.574	92.603	76.556	1.00	21.05	B	C
	ATOM	1432	CG	LYS	B	287	18.878	92.781	75.227	1.00	22.86	B	C
15	ATOM	1433	CD	LYS	B	287	17.407	93.087	75.440	1.00	23.59	B	C
	ATOM	1434	CE	LYS	B	287	16.995	94.372	74.748	1.00	25.89	B	C
	ATOM	1435	NZ	LYS	B	287	15.522	94.407	74.497	1.00	28.34	B	N
	ATOM	1436	C	LYS	B	287	21.783	92.275	77.640	1.00	23.06	B	C
	ATOM	1437	O	LYS	B	287	22.659	93.123	77.459	1.00	22.71	B	O
20	ATOM	1438	N	ASN	B	288	21.560	91.710	78.822	1.00	24.00	B	N
	ATOM	1439	CA	ASN	B	288	22.347	92.067	79.998	1.00	25.55	B	C
	ATOM	1440	CB	ASN	B	288	21.509	91.888	81.262	1.00	23.86	B	C
	ATOM	1441	CG	ASN	B	288	20.497	92.997	81.436	1.00	26.49	B	C
	ATOM	1442	OD1	ASN	B	288	20.790	94.168	81.178	1.00	27.19	B	O
25	ATOM	1443	ND2	ASN	B	288	19.297	92.638	81.867	1.00	26.82	B	N
	ATOM	1444	C	ASN	B	288	23.640	91.275	80.107	1.00	25.61	B	C
	ATOM	1445	O	ASN	B	288	24.339	91.343	81.114	1.00	25.17	B	O
	ATOM	1446	N	ASN	B	289	23.951	90.526	79.057	1.00	25.96	B	N
30	ATOM	1447	CA	ASN	B	289	25.171	89.735	78.998	1.00	27.46	B	C
	ATOM	1448	CB	ASN	B	289	24.847	88.341	78.463	1.00	23.73	B	C
	ATOM	1449	CG	ASN	B	289	26.030	87.413	78.508	1.00	21.57	B	C
	ATOM	1450	OD1	ASN	B	289	26.863	87.492	79.407	1.00	20.78	B	O
	ATOM	1451	ND2	ASN	B	289	26.115	86.523	77.529	1.00	18.71	B	N
35	ATOM	1452	C	ASN	B	289	26.107	90.484	78.044	1.00	30.37	B	C
	ATOM	1453	O	ASN	B	289	26.043	90.293	76.825	1.00	33.00	B	O
	ATOM	1454	N	PRO	B	290	26.982	91.355	78.586	1.00	32.27	B	N
	ATOM	1455	CD	PRO	B	290	27.138	91.625	80.027	1.00	30.92	B	C
	ATOM	1456	CA	PRO	B	290	27.928	92.147	77.785	1.00	32.58	B	C
40	ATOM	1457	CB	PRO	B	290	28.438	93.191	78.772	1.00	31.53	B	C
	ATOM	1458	CG	PRO	B	290	28.379	92.478	80.082	1.00	31.79	B	C
	ATOM	1459	C	PRO	B	290	29.071	91.345	77.176	1.00	33.33	B	C
	ATOM	1460	O	PRO	B	290	29.781	91.823	76.288	1.00	33.44	B	O
	ATOM	1461	N	HIS	B	291	29.245	90.124	77.655	1.00	34.72	B	N
45	ATOM	1462	CA	HIS	B	291	30.319	89.270	77.166	1.00	38.49	B	C
	ATOM	1463	CB	HIS	B	291	30.576	88.142	78.170	1.00	42.40	B	C
	ATOM	1464	CG	HIS	B	291	30.908	88.631	79.544	1.00	47.53	B	C
	ATOM	1465	CD2	HIS	B	291	32.101	88.823	80.158	1.00	48.49	B	C
	ATOM	1466	ND1	HIS	B	291	29.943	89.028	80.446	1.00	50.36	B	N
50	ATOM	1467	CE1	HIS	B	291	30.528	89.444	81.556	1.00	51.37	B	C
	ATOM	1468	NE2	HIS	B	291	31.837	89.330	81.407	1.00	50.88	B	N
	ATOM	1469	C	HIS	B	291	30.068	88.667	75.789	1.00	36.89	B	C
	ATOM	1470	O	HIS	B	291	31.012	88.349	75.067	1.00	37.34	B	O
	ATOM	1471	N	ARG	B	292	28.805	88.530	75.408	1.00	33.25	B	N
55	ATOM	1472	CA	ARG	B	292	28.522	87.901	74.141	1.00	29.48	B	C
	ATOM	1473	CB	ARG	B	292	28.561	86.381	74.336	1.00	27.45	B	C
	ATOM	1474	CG	ARG	B	292	29.793	85.720	73.784	1.00	28.15	B	C
	ATOM	1475	CD	ARG	B	292	30.199	84.560	74.632	1.00	29.09	B	C
	ATOM	1476	NE	ARG	B	292	31.506	84.766	75.248	1.00	30.25	B	N
60	ATOM	1477	CZ	ARG	B	292	32.660	84.781	74.587	1.00	29.11	B	C
	ATOM	1478	NH1	ARG	B	292	32.692	84.604	73.274	1.00	30.36	B	N
	ATOM	1479	NH2	ARG	B	292	33.792	84.964	75.244	1.00	30.37	B	N
	ATOM	1480	C	ARG	B	292	27.220	88.252	73.448	1.00	27.42	B	C
	ATOM	1481	O	ARG	B	292	26.285	88.819	74.039	1.00	27.46	B	O
65	ATOM	1482	N	ASP	B	293	27.207	87.897	72.165	1.00	24.62	B	N
	ATOM	1483	CA	ASP	B	293	26.061	88.013	71.277	1.00	22.14	B	C
	ATOM	1484	CB	ASP	B	293	25.988	89.374	70.567	1.00	19.74	B	C
	ATOM	1485	CG	ASP	B	293	27.186	89.664	69.700	1.00	21.87	B	C
	ATOM	1486	OD1	ASP	B	293	27.460	90.865	69.497	1.00	22.08	B	O

	ATOM	1487	OD2	ASP	B	293	27.846	88.719	69.219	1.00	22.23	B	O
	ATOM	1488	C	ASP	B	293	26.300	86.859	70.307	1.00	20.50	B	C
	ATOM	1489	O	ASP	B	293	27.361	86.240	70.344	1.00	19.07	B	O
5	ATOM	1490	N	PHE	B	294	25.324	86.543	69.465	1.00	22.43	B	N
	ATOM	1491	CA	PHE	B	294	25.466	85.420	68.544	1.00	21.72	B	C
	ATOM	1492	CB	PHE	B	294	24.309	85.408	67.547	1.00	22.30	B	C
	ATOM	1493	CG	PHE	B	294	24.383	84.282	66.548	1.00	23.36	B	C
	ATOM	1494	CD1	PHE	B	294	24.022	82.988	66.912	1.00	21.82	B	C
10	ATOM	1495	CD2	PHE	B	294	24.832	84.512	65.253	1.00	22.27	B	C
	ATOM	1496	CE1	PHE	B	294	24.108	81.936	66.004	1.00	20.20	B	C
	ATOM	1497	CE2	PHE	B	294	24.922	83.464	64.339	1.00	21.39	B	C
	ATOM	1498	CZ	PHE	B	294	24.559	82.175	64.717	1.00	21.21	B	C
	ATOM	1499	C	PHE	B	294	26.781	85.394	67.780	1.00	21.26	B	C
15	ATOM	1500	O	PHE	B	294	27.382	84.341	67.597	1.00	22.30	B	O
	ATOM	1501	N	TYR	B	295	27.232	86.562	67.350	1.00	20.44	B	N
	ATOM	1502	CA	TYR	B	295	28.449	86.654	66.568	1.00	20.22	B	C
	ATOM	1503	CB	TYR	B	295	28.563	88.062	66.014	1.00	20.44	B	C
	ATOM	1504	CG	TYR	B	295	27.417	88.326	65.084	1.00	23.19	B	C
20	ATOM	1505	CD1	TYR	B	295	27.377	87.739	63.819	1.00	24.15	B	C
	ATOM	1506	CE1	TYR	B	295	26.275	87.899	62.985	1.00	25.40	B	C
	ATOM	1507	CD2	TYR	B	295	26.324	89.085	65.493	1.00	23.96	B	C
	ATOM	1508	CE2	TYR	B	295	25.215	89.253	64.665	1.00	24.99	B	C
	ATOM	1509	CZ	TYR	B	295	25.198	88.657	63.414	1.00	26.74	B	C
25	ATOM	1510	OH	TYR	B	295	24.113	88.835	62.585	1.00	28.56	B	O
	ATOM	1511	C	TYR	B	295	29.760	86.202	67.180	1.00	20.55	B	C
	ATOM	1512	O	TYR	B	295	30.673	85.848	66.447	1.00	22.69	B	O
	ATOM	1513	N	ASN	B	296	29.888	86.206	68.501	1.00	19.23	B	N
	ATOM	1514	CA	ASN	B	296	31.138	85.727	69.070	1.00	17.55	B	C
30	ATOM	1515	CB	ASN	B	296	31.910	86.847	69.797	1.00	19.40	B	C
	ATOM	1516	CG	ASN	B	296	31.191	87.398	71.011	1.00	19.47	B	C
	ATOM	1517	OD1	ASN	B	296	31.805	88.088	71.820	1.00	18.48	B	O
	ATOM	1518	ND2	ASN	B	296	29.899	87.110	71.143	1.00	21.34	B	N
	ATOM	1519	C	ASN	B	296	30.959	84.491	69.941	1.00	17.58	B	C
35	ATOM	1520	O	ASN	B	296	31.711	84.249	70.886	1.00	16.39	B	O
	ATOM	1521	N	CYS	B	297	29.942	83.710	69.585	1.00	16.66	B	N
	ATOM	1522	CA	CYS	B	297	29.636	82.433	70.220	1.00	19.23	B	C
	ATOM	1523	CB	CYS	B	297	28.124	82.174	70.233	1.00	20.42	B	C
	ATOM	1524	SG	CYS	B	297	27.214	82.956	71.586	1.00	24.81	B	S
40	ATOM	1525	C	CYS	B	297	30.284	81.443	69.253	1.00	18.17	B	C
	ATOM	1526	O	CYS	B	297	30.341	81.708	68.053	1.00	19.17	B	O
	ATOM	1527	N	ARG	B	298	30.783	80.321	69.749	1.00	18.02	B	N
	ATOM	1528	CA	ARG	B	298	31.384	79.349	68.850	1.00	18.29	B	C
	ATOM	1529	CB	ARG	B	298	32.302	78.400	69.613	1.00	19.88	B	C
45	ATOM	1530	CG	ARG	B	298	33.750	78.827	69.613	1.00	21.35	B	C
	ATOM	1531	CD	ARG	B	298	33.918	80.106	70.405	1.00	22.72	B	C
	ATOM	1532	NE	ARG	B	298	35.322	80.460	70.564	1.00	25.61	B	N
	ATOM	1533	CZ	ARG	B	298	35.756	81.422	71.373	1.00	27.85	B	C
	ATOM	1534	NH1	ARG	B	298	34.891	82.123	72.097	1.00	28.66	B	N
50	ATOM	1535	NH2	ARG	B	298	37.052	81.692	71.453	1.00	28.43	B	N
	ATOM	1536	C	ARG	B	298	30.274	78.553	68.179	1.00	19.67	B	C
	ATOM	1537	O	ARG	B	298	29.252	78.243	68.805	1.00	18.89	B	O
	ATOM	1538	N	LYS	B	299	30.474	78.245	66.899	1.00	19.52	B	N
	ATOM	1539	CA	LYS	B	299	29.511	77.478	66.108	1.00	17.98	B	C
55	ATOM	1540	CB	LYS	B	299	28.858	78.370	65.053	1.00	18.44	B	C
	ATOM	1541	CG	LYS	B	299	27.534	78.984	65.473	1.00	20.31	B	C
	ATOM	1542	CD	LYS	B	299	27.708	80.363	66.098	1.00	20.84	B	C
	ATOM	1543	CE	LYS	B	299	28.532	81.279	65.223	1.00	19.45	B	C
	ATOM	1544	NZ	LYS	B	299	28.730	82.594	65.874	1.00	19.33	B	N
60	ATOM	1545	C	LYS	B	299	30.309	76.383	65.421	1.00	17.05	B	C
	ATOM	1546	O	LYS	B	299	31.396	76.641	64.923	1.00	16.46	B	O
	ATOM	1547	N	VAL	B	300	29.788	75.162	65.401	1.00	15.33	B	N
	ATOM	1548	CA	VAL	B	300	30.505	74.066	64.762	1.00	13.57	B	C
	ATOM	1549	CB	VAL	B	300	30.903	72.981	65.791	1.00	11.25	B	C
65	ATOM	1550	CG1	VAL	B	300	31.652	71.854	65.102	1.00	8.15	B	C
	ATOM	1551	CG2	VAL	B	300	31.766	73.595	66.885	1.00	12.17	B	C
	ATOM	1552	C	VAL	B	300	29.681	73.411	63.657	1.00	15.16	B	C
	ATOM	1553	O	VAL	B	300	28.502	73.099	63.858	1.00	14.26	B	O
	ATOM	1554	N	ASP	B	301	30.300	73.232	62.485	1.00	14.75	B	N

	ATOM	1555	CA	ASP	B	301	29.650	72.576	61.347	1.00	14.34	B	C
	ATOM	1556	CB	ASP	B	301	30.358	72.929	60.035	1.00	15.89	B	C
	ATOM	1557	CG	ASP	B	301	29.467	72.743	58.816	1.00	16.65	B	C
5	ATOM	1558	OD1	ASP	B	301	29.757	73.373	57.779	1.00	18.36	B	O
	ATOM	1559	OD2	ASP	B	301	28.483	71.971	58.890	1.00	15.67	B	O
	ATOM	1560	C	ASP	B	301	29.847	71.109	61.668	1.00	12.87	B	C
	ATOM	1561	O	ASP	B	301	30.877	70.521	61.353	1.00	11.57	B	O
	ATOM	1562	N	THR	B	302	28.847	70.535	62.317	1.00	13.27	B	N
10	ATOM	1563	CA	THR	B	302	28.896	69.160	62.778	1.00	13.66	B	C
	ATOM	1564	CB	THR	B	302	27.834	68.958	63.866	1.00	12.63	B	C
	ATOM	1565	OG1	THR	B	302	26.621	69.609	63.452	1.00	13.10	B	O
	ATOM	1566	CG2	THR	B	302	28.305	69.569	65.193	1.00	8.23	B	C
	ATOM	1567	C	THR	B	302	28.710	68.100	61.705	1.00	16.11	B	C
	ATOM	1568	O	THR	B	302	28.861	66.908	61.967	1.00	16.93	B	O
15	ATOM	1569	N	HIS	B	303	28.388	68.525	60.495	1.00	16.93	B	N
	ATOM	1570	CA	HIS	B	303	28.166	67.574	59.417	1.00	17.73	B	C
	ATOM	1571	CB	HIS	B	303	26.690	67.155	59.426	1.00	18.03	B	C
	ATOM	1572	CG	HIS	B	303	26.201	66.578	58.137	1.00	20.35	B	C
	ATOM	1573	CD2	HIS	B	303	26.721	65.622	57.330	1.00	20.03	B	C
20	ATOM	1574	ND1	HIS	B	303	25.000	66.949	57.569	1.00	19.99	B	N
	ATOM	1575	CE1	HIS	B	303	24.800	66.244	56.471	1.00	20.00	B	C
	ATOM	1576	NE2	HIS	B	303	25.829	65.434	56.303	1.00	19.22	B	N
	ATOM	1577	C	HIS	B	303	28.558	68.229	58.101	1.00	17.21	B	C
	ATOM	1578	O	HIS	B	303	27.788	68.991	57.525	1.00	16.74	B	O
25	ATOM	1579	N	ILE	B	304	29.780	67.946	57.656	1.00	17.34	B	N
	ATOM	1580	CA	ILE	B	304	30.304	68.500	56.415	1.00	17.35	B	C
	ATOM	1581	CB	ILE	B	304	30.991	69.871	56.656	1.00	15.91	B	C
	ATOM	1582	CG2	ILE	B	304	31.952	69.775	57.812	1.00	14.66	B	C
	ATOM	1583	CG1	ILE	B	304	31.739	70.312	55.400	1.00	17.13	B	C
30	ATOM	1584	CD1	ILE	B	304	31.903	71.809	55.261	1.00	17.57	B	C
	ATOM	1585	C	ILE	B	304	31.312	67.538	55.793	1.00	18.26	B	C
	ATOM	1586	O	ILE	B	304	32.086	66.895	56.504	1.00	17.61	B	O
	ATOM	1587	N	HIS	B	305	31.293	67.445	54.460	1.00	18.14	B	N
	ATOM	1588	CA	HIS	B	305	32.197	66.560	53.719	1.00	16.46	B	C
35	ATOM	1589	CB	HIS	B	305	31.416	65.818	52.626	1.00	13.83	B	C
	ATOM	1590	CG	HIS	B	305	30.196	65.109	53.132	1.00	11.02	B	C
	ATOM	1591	CD2	HIS	B	305	28.969	65.573	53.472	1.00	13.12	B	C
	ATOM	1592	ND1	HIS	B	305	30.159	63.747	53.348	1.00	11.64	B	N
	ATOM	1593	CE1	HIS	B	305	28.966	63.404	53.801	1.00	10.29	B	C
40	ATOM	1594	NE2	HIS	B	305	28.225	64.492	53.885	1.00	7.06	B	N
	ATOM	1595	C	HIS	B	305	33.362	67.348	53.114	1.00	15.06	B	C
	ATOM	1596	O	HIS	B	305	33.160	68.361	52.445	1.00	15.89	B	O
	ATOM	1597	N	ALA	B	306	34.580	66.878	53.371	1.00	14.82	B	N
	ATOM	1598	CA	ALA	B	306	35.798	67.524	52.894	1.00	15.75	B	C
45	ATOM	1599	CB	ALA	B	306	37.016	66.659	53.238	1.00	14.80	B	C
	ATOM	1600	C	ALA	B	306	35.786	67.829	51.398	1.00	16.49	B	C
	ATOM	1601	O	ALA	B	306	36.192	68.908	50.981	1.00	18.00	B	O
	ATOM	1602	N	ALA	B	307	35.317	66.877	50.598	1.00	17.81	B	N
	ATOM	1603	CA	ALA	B	307	35.267	67.037	49.147	1.00	16.71	B	C
50	ATOM	1604	CB	ALA	B	307	34.744	65.770	48.510	1.00	14.14	B	C
	ATOM	1605	C	ALA	B	307	34.426	68.220	48.687	1.00	18.69	B	C
	ATOM	1606	O	ALA	B	307	34.524	68.631	47.530	1.00	21.96	B	O
	ATOM	1607	N	ALA	B	308	33.606	68.774	49.578	1.00	18.46	B	N
	ATOM	1608	CA	ALA	B	308	32.752	69.901	49.218	1.00	17.22	B	C
55	ATOM	1609	CB	ALA	B	308	31.329	69.426	49.049	1.00	16.89	B	C
	ATOM	1610	C	ALA	B	308	32.792	71.039	50.226	1.00	18.43	B	C
	ATOM	1611	O	ALA	B	308	31.917	71.902	50.221	1.00	18.05	B	O
	ATOM	1612	N	CYS	B	309	33.815	71.063	51.073	1.00	19.81	B	N
	ATOM	1613	CA	CYS	B	309	33.928	72.102	52.093	1.00	22.28	B	C
60	ATOM	1614	CB	CYS	B	309	34.935	71.674	53.178	1.00	22.48	B	C
	ATOM	1615	SG	CYS	B	309	36.678	71.577	52.685	1.00	26.64	B	S
	ATOM	1616	C	CYS	B	309	34.285	73.494	51.570	1.00	22.41	B	C
	ATOM	1617	O	CYS	B	309	34.223	74.477	52.309	1.00	22.08	B	O
	ATOM	1618	N	MET	B	310	34.652	73.587	50.297	1.00	23.97	B	N
65	ATOM	1619	CA	MET	B	310	35.010	74.879	49.704	1.00	22.79	B	C
	ATOM	1620	CB	MET	B	310	36.237	74.718	48.797	1.00	20.54	B	C
	ATOM	1621	CG	MET	B	310	35.948	74.041	47.463	1.00	15.90	B	C
	ATOM	1622	SD	MET	B	310	35.584	72.289	47.597	1.00	18.14	B	S

	ATOM	1623	CE	MET	B	310	37.009	71.680	48.490	1.00	11.58	B	C
	ATOM	1624	C	MET	B	310	33.849	75.470	48.898	1.00	23.51	B	C
	ATOM	1625	O	MET	B	310	32.965	74.746	48.438	1.00	22.13	B	O
5	ATOM	1626	N	ASN	B	311	33.843	76.790	48.747	1.00	24.50	B	N
	ATOM	1627	CA	ASN	B	311	32.799	77.446	47.970	1.00	26.32	B	C
	ATOM	1628	CB	ASN	B	311	32.778	78.954	48.243	1.00	30.23	B	C
	ATOM	1629	CG	ASN	B	311	31.685	79.673	47.459	1.00	37.16	B	C
	ATOM	1630	OD1	ASN	B	311	30.498	79.334	47.556	1.00	41.40	B	O
10	ATOM	1631	ND2	ASN	B	311	32.080	80.671	46.676	1.00	39.84	B	N
	ATOM	1632	C	ASN	B	311	33.109	77.199	46.499	1.00	24.97	B	C
	ATOM	1633	O	ASN	B	311	34.271	77.039	46.122	1.00	23.19	B	O
	ATOM	1634	N	GLN	B	312	32.076	77.158	45.668	1.00	25.53	B	N
	ATOM	1635	CA	GLN	B	312	32.290	76.930	44.252	1.00	24.74	B	C
15	ATOM	1636	CB	GLN	B	312	30.949	76.860	43.525	1.00	23.79	B	C
	ATOM	1637	CG	GLN	B	312	30.120	78.118	43.613	1.00	23.25	B	C
	ATOM	1638	CD	GLN	B	312	28.836	77.998	42.816	1.00	22.20	B	C
	ATOM	1639	OE1	GLN	B	312	28.687	77.079	42.008	1.00	22.84	B	O
	ATOM	1640	NE2	GLN	B	312	27.901	78.920	43.042	1.00	20.21	B	N
20	ATOM	1641	C	GLN	B	312	33.186	78.022	43.651	1.00	24.21	B	C
	ATOM	1642	O	GLN	B	312	33.980	77.748	42.756	1.00	24.22	B	O
	ATOM	1643	N	LYS	B	313	33.076	79.249	44.155	1.00	22.93	B	N
	ATOM	1644	CA	LYS	B	313	33.898	80.350	43.657	1.00	21.88	B	C
	ATOM	1645	CB	LYS	B	313	33.353	81.693	44.144	1.00	24.06	B	C
25	ATOM	1646	CG	LYS	B	313	32.298	82.297	43.224	1.00	27.44	B	C
	ATOM	1647	CD	LYS	B	313	32.037	83.756	43.552	1.00	31.45	B	C
	ATOM	1648	CE	LYS	B	313	31.435	83.911	44.937	1.00	35.26	B	C
	ATOM	1649	NZ	LYS	B	313	31.507	85.322	45.414	1.00	38.92	B	N
	ATOM	1650	C	LYS	B	313	35.340	80.187	44.118	1.00	22.19	B	C
30	ATOM	1651	O	LYS	B	313	36.277	80.678	43.481	1.00	20.82	B	O
	ATOM	1652	N	HIS	B	314	35.505	79.498	45.241	1.00	21.96	B	N
	ATOM	1653	CA	HIS	B	314	36.820	79.229	45.808	1.00	20.74	B	C
	ATOM	1654	CB	HIS	B	314	36.654	78.691	47.239	1.00	23.49	B	C
	ATOM	1655	CG	HIS	B	314	37.945	78.376	47.936	1.00	24.66	B	C
35	ATOM	1656	CD2	HIS	B	314	38.187	77.821	49.148	1.00	25.37	B	C
	ATOM	1657	ND1	HIS	B	314	39.181	78.634	47.381	1.00	25.94	B	N
	ATOM	1658	CE1	HIS	B	314	40.127	78.252	48.221	1.00	25.61	B	C
	ATOM	1659	NE2	HIS	B	314	39.551	77.756	49.301	1.00	25.43	B	N
	ATOM	1660	C	HIS	B	314	37.492	78.187	44.904	1.00	20.54	B	C
40	ATOM	1661	O	HIS	B	314	38.647	78.342	44.507	1.00	19.60	B	O
	ATOM	1662	N	LEU	B	315	36.758	77.129	44.570	1.00	19.08	B	N
	ATOM	1663	CA	LEU	B	315	37.287	76.092	43.701	1.00	20.04	B	C
	ATOM	1664	CB	LEU	B	315	36.273	74.953	43.549	1.00	19.43	B	C
	ATOM	1665	CG	LEU	B	315	36.607	73.945	42.444	1.00	18.59	B	C
45	ATOM	1666	CD1	LEU	B	315	37.901	73.213	42.797	1.00	18.93	B	C
	ATOM	1667	CD2	LEU	B	315	35.454	72.964	42.270	1.00	17.98	B	C
	ATOM	1668	C	LEU	B	315	37.620	76.671	42.321	1.00	21.12	B	C
	ATOM	1669	O	LEU	B	315	38.675	76.379	41.752	1.00	20.78	B	O
	ATOM	1670	N	LEU	B	316	36.719	77.491	41.786	1.00	21.94	B	N
50	ATOM	1671	CA	LEU	B	316	36.931	78.105	40.481	1.00	22.26	B	C
	ATOM	1672	CB	LEU	B	316	35.747	79.002	40.123	1.00	21.99	B	C
	ATOM	1673	CG	LEU	B	316	35.829	79.692	38.756	1.00	22.19	B	C
	ATOM	1674	CD1	LEU	B	316	35.732	78.650	37.653	1.00	20.59	B	C
	ATOM	1675	CD2	LEU	B	316	34.707	80.706	38.621	1.00	20.71	B	C
55	ATOM	1676	C	LEU	B	316	38.213	78.929	40.496	1.00	23.88	B	C
	ATOM	1677	O	LEU	B	316	39.036	78.860	39.584	1.00	24.41	B	O
	ATOM	1678	N	ARG	B	317	38.373	79.712	41.550	1.00	25.52	B	N
	ATOM	1679	CA	ARG	B	317	39.545	80.555	41.724	1.00	25.45	B	C
	ATOM	1680	CB	ARG	B	317	39.419	81.306	43.051	1.00	28.27	B	C
60	ATOM	1681	CG	ARG	B	317	40.379	82.458	43.238	1.00	32.50	B	C
	ATOM	1682	CD	ARG	B	317	39.776	83.522	44.159	1.00	35.57	B	C
	ATOM	1683	NE	ARG	B	317	39.345	82.979	45.450	1.00	37.42	B	N
	ATOM	1684	CZ	ARG	B	317	38.101	83.055	45.915	1.00	37.55	B	C
	ATOM	1685	NH1	ARG	B	317	37.159	83.651	45.193	1.00	37.91	B	N
65	ATOM	1686	NH2	ARG	B	317	37.798	82.545	47.102	1.00	37.73	B	N
	ATOM	1687	C	ARG	B	317	40.828	79.724	41.719	1.00	24.41	B	C
	ATOM	1688	O	ARG	B	317	41.797	80.065	41.049	1.00	22.21	B	O
	ATOM	1689	N	PHE	B	318	40.825	78.627	42.472	1.00	23.67	B	N
	ATOM	1690	CA	PHE	B	318	41.997	77.766	42.572	1.00	22.23	B	C

	ATOM	1691	CB	PHE	B	318	41.805	76.718	43.672	1.00	21.12	B	C
	ATOM	1692	CG	PHE	B	318	42.998	75.823	43.857	1.00	22.31	B	C
	ATOM	1693	CD1	PHE	B	318	44.022	76.178	44.732	1.00	21.48	B	C
5	ATOM	1694	CD2	PHE	B	318	43.124	74.643	43.127	1.00	22.07	B	C
	ATOM	1695	CE1	PHE	B	318	45.156	75.374	44.875	1.00	20.42	B	C
	ATOM	1696	CE2	PHE	B	318	44.255	73.833	43.263	1.00	19.67	B	C
	ATOM	1697	CZ	PHE	B	318	45.273	74.199	44.138	1.00	19.40	B	C
	ATOM	1698	C	PHE	B	318	42.342	77.054	41.272	1.00	22.10	B	C
10	ATOM	1699	O	PHE	B	318	43.516	76.832	40.969	1.00	21.03	B	O
	ATOM	1700	N	ILE	B	319	41.325	76.674	40.509	1.00	22.08	B	N
	ATOM	1701	CA	ILE	B	319	41.583	75.992	39.254	1.00	21.13	B	C
	ATOM	1702	CB	ILE	B	319	40.274	75.585	38.565	1.00	19.74	B	C
	ATOM	1703	CG2	ILE	B	319	40.536	75.224	37.110	1.00	18.04	B	C
	ATOM	1704	CG1	ILE	B	319	39.662	74.398	39.302	1.00	17.44	B	C
15	ATOM	1705	CD1	ILE	B	319	38.276	74.064	38.847	1.00	19.72	B	C
	ATOM	1706	C	ILE	B	319	42.387	76.910	38.334	1.00	23.03	B	C
	ATOM	1707	O	ILE	B	319	43.395	76.499	37.755	1.00	22.65	B	O
	ATOM	1708	N	LYS	B	320	41.950	78.160	38.218	1.00	23.26	B	N
	ATOM	1709	CA	LYS	B	320	42.631	79.116	37.361	1.00	25.01	B	C
20	ATOM	1710	CB	LYS	B	320	41.842	80.420	37.313	1.00	23.96	B	C
	ATOM	1711	CG	LYS	B	320	40.431	80.236	36.782	1.00	23.49	B	C
	ATOM	1712	CD	LYS	B	320	39.801	81.560	36.411	1.00	22.44	B	C
	ATOM	1713	CE	LYS	B	320	38.493	81.351	35.674	1.00	23.70	B	C
	ATOM	1714	NZ	LYS	B	320	37.613	82.546	35.787	1.00	26.06	B	N
25	ATOM	1715	C	LYS	B	320	44.061	79.380	37.819	1.00	26.68	B	C
	ATOM	1716	O	LYS	B	320	44.975	79.478	37.001	1.00	27.60	B	O
	ATOM	1717	N	LYS	B	321	44.256	79.488	39.127	1.00	27.60	B	N
	ATOM	1718	CA	LYS	B	321	45.584	79.734	39.673	1.00	28.69	B	C
	ATOM	1719	CB	LYS	B	321	45.499	79.991	41.183	1.00	31.26	B	C
30	ATOM	1720	CG	LYS	B	321	46.751	80.615	41.783	1.00	33.71	B	C
	ATOM	1721	CD	LYS	B	321	47.054	81.965	41.140	1.00	39.13	B	C
	ATOM	1722	CE	LYS	B	321	48.320	82.603	41.711	1.00	40.05	B	C
	ATOM	1723	NZ	LYS	B	321	49.298	81.587	42.196	1.00	42.99	B	N
	ATOM	1724	C	LYS	B	321	46.511	78.553	39.409	1.00	28.79	B	C
35	ATOM	1725	O	LYS	B	321	47.688	78.735	39.111	1.00	29.31	B	O
	ATOM	1726	N	SER	B	322	45.980	77.342	39.522	1.00	28.43	B	N
	ATOM	1727	CA	SER	B	322	46.778	76.146	39.298	1.00	28.39	B	C
	ATOM	1728	CB	SER	B	322	45.948	74.891	39.594	1.00	25.77	B	C
	ATOM	1729	OG	SER	B	322	44.973	74.666	38.592	1.00	24.49	B	O
40	ATOM	1730	C	SER	B	322	47.298	76.100	37.862	1.00	30.30	B	C
	ATOM	1731	O	SER	B	322	48.388	75.593	37.600	1.00	28.61	B	O
	ATOM	1732	N	TYR	B	323	46.513	76.637	36.932	1.00	32.25	B	N
	ATOM	1733	CA	TYR	B	323	46.904	76.648	35.529	1.00	33.92	B	C
	ATOM	1734	CB	TYR	B	323	45.695	76.934	34.644	1.00	34.95	B	C
45	ATOM	1735	CG	TYR	B	323	46.032	76.991	33.175	1.00	36.49	B	C
	ATOM	1736	CD1	TYR	B	323	46.325	78.205	32.557	1.00	38.09	B	C
	ATOM	1737	CE1	TYR	B	323	46.636	78.270	31.206	1.00	38.81	B	C
	ATOM	1738	CD2	TYR	B	323	46.059	75.833	32.400	1.00	37.43	B	C
	ATOM	1739	CE2	TYR	B	323	46.368	75.883	31.046	1.00	39.60	B	C
50	ATOM	1740	CZ	TYR	B	323	46.655	77.106	30.455	1.00	40.82	B	C
	ATOM	1741	OH	TYR	B	323	46.957	77.171	29.112	1.00	44.58	B	O
	ATOM	1742	C	TYR	B	323	47.977	77.698	35.275	1.00	34.32	B	C
	ATOM	1743	O	TYR	B	323	48.924	77.473	34.524	1.00	33.74	B	O
	ATOM	1744	N	GLN	B	324	47.818	78.853	35.904	1.00	35.12	B	N
55	ATOM	1745	CA	GLN	B	324	48.772	79.934	35.745	1.00	35.95	B	C
	ATOM	1746	CB	GLN	B	324	48.312	81.158	36.543	1.00	38.25	B	C
	ATOM	1747	CG	GLN	B	324	49.392	82.199	36.787	1.00	42.22	B	C
	ATOM	1748	CD	GLN	B	324	49.127	83.041	38.029	1.00	45.20	B	C
	ATOM	1749	OE1	GLN	B	324	47.998	83.479	38.273	1.00	45.72	B	O
60	ATOM	1750	NE2	GLN	B	324	50.173	83.269	38.821	1.00	45.07	B	N
	ATOM	1751	C	GLN	B	324	50.163	79.511	36.206	1.00	35.38	B	C
	ATOM	1752	O	GLN	B	324	51.167	79.943	35.641	1.00	35.27	B	O
	ATOM	1753	N	VAL	B	325	50.228	78.653	37.217	1.00	33.62	B	N
	ATOM	1754	CA	VAL	B	325	51.526	78.230	37.732	1.00	32.29	B	C
65	ATOM	1755	CB	VAL	B	325	51.616	78.445	39.274	1.00	30.59	B	C
	ATOM	1756	CG1	VAL	B	325	50.834	79.680	39.680	1.00	28.98	B	C
	ATOM	1757	CG2	VAL	B	325	51.100	77.226	40.005	1.00	31.76	B	C
	ATOM	1758	C	VAL	B	325	51.961	76.799	37.423	1.00	32.12	B	C

	ATOM	1759	O	VAL	B	325	53.152	76.497	37.491	1.00	32.80	B	O
	ATOM	1760	N	ASP	B	326	51.023	75.921	37.080	1.00	31.93	B	N
	ATOM	1761	CA	ASP	B	326	51.375	74.530	36.795	1.00	30.97	B	C
5	ATOM	1762	CB	ASP	B	326	50.767	73.606	37.859	1.00	31.03	B	C
	ATOM	1763	CG	ASP	B	326	51.524	73.647	39.179	1.00	31.33	B	C
	ATOM	1764	OD1	ASP	B	326	52.665	74.151	39.200	1.00	30.87	B	O
	ATOM	1765	OD2	ASP	B	326	50.977	73.173	40.200	1.00	31.21	B	O
	ATOM	1766	C	ASP	B	326	50.928	74.047	35.424	1.00	31.51	B	C
10	ATOM	1767	O	ASP	B	326	50.771	72.843	35.222	1.00	33.33	B	O
	ATOM	1768	N	ALA	B	327	50.725	74.969	34.487	1.00	31.04	B	N
	ATOM	1769	CA	ALA	B	327	50.276	74.615	33.139	1.00	31.67	B	C
	ATOM	1770	CB	ALA	B	327	50.282	75.852	32.250	1.00	31.80	B	C
	ATOM	1771	C	ALA	B	327	51.094	73.503	32.480	1.00	33.01	B	C
	ATOM	1772	O	ALA	B	327	50.555	72.687	31.722	1.00	31.94	B	O
15	ATOM	1773	N	ASP	B	328	52.390	73.464	32.774	1.00	33.26	B	N
	ATOM	1774	CA	ASP	B	328	53.263	72.455	32.184	1.00	35.61	B	C
	ATOM	1775	CB	ASP	B	328	54.508	73.123	31.594	1.00	38.42	B	C
	ATOM	1776	CG	ASP	B	328	54.165	74.200	30.573	1.00	42.26	B	C
	ATOM	1777	OD1	ASP	B	328	53.434	73.902	29.598	1.00	43.07	B	O
20	ATOM	1778	OD2	ASP	B	328	54.628	75.347	30.752	1.00	44.09	B	O
	ATOM	1779	C	ASP	B	328	53.688	71.344	33.139	1.00	34.17	B	C
	ATOM	1780	O	ASP	B	328	54.590	70.572	32.826	1.00	35.25	B	O
	ATOM	1781	N	ARG	B	329	53.042	71.266	34.298	1.00	32.79	B	N
	ATOM	1782	CA	ARG	B	329	53.353	70.235	35.279	1.00	30.98	B	C
25	ATOM	1783	CB	ARG	B	329	52.850	70.656	36.667	1.00	31.23	B	C
	ATOM	1784	CG	ARG	B	329	53.630	70.067	37.838	1.00	32.17	B	C
	ATOM	1785	CD	ARG	B	329	52.744	69.270	38.796	1.00	33.73	B	C
	ATOM	1786	NE	ARG	B	329	52.343	70.059	39.959	1.00	36.11	B	N
	ATOM	1787	CZ	ARG	B	329	52.275	69.604	41.209	1.00	35.68	B	C
30	ATOM	1788	NH1	ARG	B	329	52.582	68.348	41.492	1.00	36.92	B	N
	ATOM	1789	NH2	ARG	B	329	51.882	70.409	42.181	1.00	34.65	B	N
	ATOM	1790	C	ARG	B	329	52.652	68.950	34.860	1.00	29.44	B	C
	ATOM	1791	O	ARG	B	329	51.472	68.976	34.495	1.00	27.34	B	O
	ATOM	1792	N	VAL	B	330	53.369	67.830	34.887	1.00	28.35	B	N
35	ATOM	1793	CA	VAL	B	330	52.738	66.561	34.532	1.00	30.00	B	C
	ATOM	1794	CB	VAL	B	330	53.763	65.435	34.354	1.00	28.36	B	C
	ATOM	1795	CG1	VAL	B	330	53.037	64.130	34.042	1.00	28.66	B	C
	ATOM	1796	CG2	VAL	B	330	54.717	65.786	33.231	1.00	25.32	B	C
	ATOM	1797	C	VAL	B	330	51.824	66.239	35.702	1.00	31.00	B	C
40	ATOM	1798	O	VAL	B	330	52.283	66.038	36.825	1.00	31.23	B	O
	ATOM	1799	N	VAL	B	331	50.529	66.182	35.434	1.00	33.08	B	N
	ATOM	1800	CA	VAL	B	331	49.562	65.967	36.490	1.00	34.30	B	C
	ATOM	1801	CB	VAL	B	331	48.772	67.280	36.694	1.00	34.25	B	C
	ATOM	1802	CG1	VAL	B	331	47.573	67.326	35.761	1.00	33.19	B	C
45	ATOM	1803	CG2	VAL	B	331	48.362	67.414	38.130	1.00	38.04	B	C
	ATOM	1804	C	VAL	B	331	48.599	64.804	36.274	1.00	35.09	B	C
	ATOM	1805	O	VAL	B	331	47.942	64.346	37.209	1.00	34.18	B	O
	ATOM	1806	N	TYR	B	332	48.532	64.316	35.044	1.00	36.73	B	N
	ATOM	1807	CA	TYR	B	332	47.628	63.228	34.699	1.00	39.75	B	C
50	ATOM	1808	CB	TYR	B	332	46.514	63.787	33.814	1.00	38.67	B	C
	ATOM	1809	CG	TYR	B	332	45.464	62.804	33.351	1.00	38.95	B	C
	ATOM	1810	CD1	TYR	B	332	44.353	62.519	34.142	1.00	39.71	B	C
	ATOM	1811	CE1	TYR	B	332	43.325	61.692	33.674	1.00	41.80	B	C
	ATOM	1812	CD2	TYR	B	332	45.533	62.233	32.080	1.00	39.32	B	C
55	ATOM	1813	CE2	TYR	B	332	44.513	61.405	31.600	1.00	40.14	B	C
	ATOM	1814	CZ	TYR	B	332	43.411	61.142	32.399	1.00	40.94	B	C
	ATOM	1815	OH	TYR	B	332	42.388	60.350	31.922	1.00	42.33	B	O
	ATOM	1816	C	TYR	B	332	48.396	62.133	33.973	1.00	42.15	B	C
	ATOM	1817	O	TYR	B	332	49.444	62.393	33.386	1.00	42.40	B	O
60	ATOM	1818	N	SER	B	333	47.879	60.910	34.011	1.00	45.79	B	N
	ATOM	1819	CA	SER	B	333	48.551	59.797	33.351	1.00	48.39	B	C
	ATOM	1820	CB	SER	B	333	48.972	58.752	34.388	1.00	48.56	B	C
	ATOM	1821	OG	SER	B	333	49.566	57.634	33.756	1.00	47.74	B	O
	ATOM	1822	C	SER	B	333	47.722	59.119	32.260	1.00	50.38	B	C
65	ATOM	1823	O	SER	B	333	46.575	58.727	32.482	1.00	49.69	B	O
	ATOM	1824	N	THR	B	334	48.318	59.001	31.077	1.00	52.84	B	N
	ATOM	1825	CA	THR	B	334	47.688	58.347	29.931	1.00	56.61	B	C
	ATOM	1826	CB	THR	B	334	47.184	59.371	28.877	1.00	56.06	B	C

	ATOM	1827	OG1	THR	B	334	45.754	59.310	28.809	1.00	57.15	B	O
	ATOM	1828	CG2	THR	B	334	47.755	59.065	27.490	1.00	56.18	B	C
	ATOM	1829	C	THR	B	334	48.751	57.441	29.312	1.00	58.93	B	C
	ATOM	1830	O	THR	B	334	49.941	57.774	29.325	1.00	58.84	B	O
5	ATOM	1831	N	LYS	B	335	48.319	56.303	28.773	1.00	59.96	B	N
	ATOM	1832	CA	LYS	B	335	49.234	55.329	28.181	1.00	61.21	B	C
	ATOM	1833	CB	LYS	B	335	48.465	54.335	27.311	1.00	60.08	B	C
	ATOM	1834	CG	LYS	B	335	49.017	52.911	27.388	1.00	59.30	B	C
10	ATOM	1835	CD	LYS	B	335	50.474	52.819	26.931	1.00	57.82	B	C
	ATOM	1836	CE	LYS	B	335	51.344	52.101	27.959	1.00	56.65	B	C
	ATOM	1837	NZ	LYS	B	335	52.247	51.078	27.345	1.00	55.09	B	N
	ATOM	1838	C	LYS	B	335	50.401	55.885	27.376	1.00	62.11	B	C
	ATOM	1839	O	LYS	B	335	51.533	55.936	27.865	1.00	63.11	B	O
15	ATOM	1840	N	GLU	B	336	50.132	56.287	26.138	1.00	62.41	B	N
	ATOM	1841	CA	GLU	B	336	51.185	56.811	25.273	1.00	63.26	B	C
	ATOM	1842	CB	GLU	B	336	50.622	57.130	23.883	1.00	65.96	B	C
	ATOM	1843	CG	GLU	B	336	51.331	56.406	22.729	1.00	69.00	B	C
	ATOM	1844	CD	GLU	B	336	52.445	55.470	23.196	1.00	70.84	B	C
20	ATOM	1845	OE1	GLU	B	336	53.584	55.950	23.405	1.00	71.85	B	O
	ATOM	1846	OE2	GLU	B	336	52.179	54.255	23.352	1.00	70.77	B	O
	ATOM	1847	C	GLU	B	336	51.886	58.041	25.842	1.00	62.01	B	C
	ATOM	1848	O	GLU	B	336	53.008	58.364	25.441	1.00	61.53	B	O
	ATOM	1849	N	LYS	B	337	51.231	58.724	26.779	1.00	60.26	B	N
25	ATOM	1850	CA	LYS	B	337	51.822	59.910	27.385	1.00	57.29	B	C
	ATOM	1851	CB	LYS	B	337	51.994	60.999	26.319	1.00	56.83	B	C
	ATOM	1852	CG	LYS	B	337	52.522	62.325	26.840	1.00	56.58	B	C
	ATOM	1853	CD	LYS	B	337	52.385	63.423	25.790	1.00	57.11	B	C
	ATOM	1854	CE	LYS	B	337	52.702	64.797	26.377	1.00	58.33	B	C
30	ATOM	1855	NZ	LYS	B	337	53.876	65.468	25.735	1.00	58.21	B	N
	ATOM	1856	C	LYS	B	337	51.009	60.461	28.554	1.00	55.59	B	C
	ATOM	1857	O	LYS	B	337	49.786	60.575	28.478	1.00	55.22	B	O
	ATOM	1858	N	ASN	B	338	51.698	60.781	29.645	1.00	52.89	B	N
	ATOM	1859	CA	ASN	B	338	51.048	61.366	30.809	1.00	49.82	B	C
35	ATOM	1860	CB	ASN	B	338	51.948	61.253	32.041	1.00	49.51	B	C
	ATOM	1861	CG	ASN	B	338	52.549	59.868	32.202	1.00	48.50	B	C
	ATOM	1862	OD1	ASN	B	338	51.829	58.871	32.299	1.00	48.32	B	O
	ATOM	1863	ND2	ASN	B	338	53.875	59.801	32.234	1.00	46.85	B	N
	ATOM	1864	C	ASN	B	338	50.902	62.824	30.391	1.00	47.14	B	C
40	ATOM	1865	O	ASN	B	338	51.794	63.364	29.740	1.00	45.84	B	O
	ATOM	1866	N	LEU	B	339	49.796	63.464	30.750	1.00	44.18	B	N
	ATOM	1867	CA	LEU	B	339	49.582	64.848	30.339	1.00	39.60	B	C
	ATOM	1868	CB	LEU	B	339	48.132	65.043	29.892	1.00	39.27	B	C
	ATOM	1869	CG	LEU	B	339	47.332	63.783	29.569	1.00	40.48	B	C
45	ATOM	1870	CD1	LEU	B	339	45.868	64.142	29.371	1.00	39.90	B	C
	ATOM	1871	CD2	LEU	B	339	47.900	63.131	28.321	1.00	40.50	B	C
	ATOM	1872	C	LEU	B	339	49.907	65.908	31.374	1.00	38.02	B	C
	ATOM	1873	O	LEU	B	339	49.823	65.672	32.579	1.00	37.55	B	O
	ATOM	1874	N	THR	B	340	50.289	67.083	30.887	1.00	34.62	B	N
50	ATOM	1875	CA	THR	B	340	50.564	68.206	31.764	1.00	31.92	B	C
	ATOM	1876	CB	THR	B	340	51.430	69.284	31.083	1.00	31.19	B	C
	ATOM	1877	OG1	THR	B	340	50.718	69.839	29.973	1.00	29.36	B	O
	ATOM	1878	CG2	THR	B	340	52.741	68.700	30.608	1.00	30.21	B	C
	ATOM	1879	C	THR	B	340	49.185	68.797	32.028	1.00	30.54	B	C
55	ATOM	1880	O	THR	B	340	48.208	68.396	31.393	1.00	28.98	B	O
	ATOM	1881	N	LEU	B	341	49.097	69.739	32.961	1.00	30.32	B	N
	ATOM	1882	CA	LEU	B	341	47.815	70.360	33.272	1.00	30.25	B	C
	ATOM	1883	CB	LEU	B	341	48.003	71.478	34.308	1.00	29.87	B	C
	ATOM	1884	CG	LEU	B	341	46.745	72.189	34.826	1.00	28.85	B	C
60	ATOM	1885	CD1	LEU	B	341	45.763	71.170	35.381	1.00	28.30	B	C
	ATOM	1886	CD2	LEU	B	341	47.129	73.201	35.890	1.00	25.65	B	C
	ATOM	1887	C	LEU	B	341	47.207	70.926	31.985	1.00	30.56	B	C
	ATOM	1888	O	LEU	B	341	46.035	70.686	31.674	1.00	30.04	B	O
	ATOM	1889	N	LYS	B	342	48.024	71.660	31.234	1.00	31.53	B	N
65	ATOM	1890	CA	LYS	B	342	47.592	72.268	29.980	1.00	31.06	B	C
	ATOM	1891	CB	LYS	B	342	48.762	72.995	29.328	1.00	32.03	B	C
	ATOM	1892	CG	LYS	B	342	48.380	73.815	28.114	1.00	35.11	B	C
	ATOM	1893	CD	LYS	B	342	49.586	74.577	27.568	1.00	39.73	B	C
	ATOM	1894	CE	LYS	B	342	49.263	76.050	27.318	1.00	42.15	B	C

	ATOM	1895	NZ	LYS	B	342	50.048	76.966	28.204	1.00	43.69	B	N
	ATOM	1896	C	LYS	B	342	47.034	71.237	29.014	1.00	30.28	B	C
	ATOM	1897	O	LYS	B	342	45.981	71.444	28.415	1.00	30.71	B	O
	ATOM	1898	N	GLN	B	343	47.739	70.121	28.870	1.00	30.62	B	N
5	ATOM	1899	CA	GLN	B	343	47.311	69.060	27.966	1.00	30.64	B	C
	ATOM	1900	CB	GLN	B	343	48.370	67.965	27.886	1.00	32.19	B	C
	ATOM	1901	CG	GLN	B	343	49.632	68.367	27.163	1.00	33.37	B	C
	ATOM	1902	CD	GLN	B	343	50.729	67.343	27.335	1.00	36.42	B	C
10	ATOM	1903	OE1	GLN	B	343	50.462	66.179	27.632	1.00	40.48	B	O
	ATOM	1904	NE2	GLN	B	343	51.971	67.769	27.154	1.00	36.35	B	N
	ATOM	1905	C	GLN	B	343	46.000	68.433	28.391	1.00	30.65	B	C
	ATOM	1906	O	GLN	B	343	45.184	68.064	27.544	1.00	31.25	B	O
	ATOM	1907	N	LEU	B	344	45.806	68.292	29.701	1.00	29.75	B	N
15	ATOM	1908	CA	LEU	B	344	44.580	67.694	30.211	1.00	29.04	B	C
	ATOM	1909	CB	LEU	B	344	44.660	67.507	31.730	1.00	26.88	B	C
	ATOM	1910	CG	LEU	B	344	43.380	67.007	32.406	1.00	27.29	B	C
	ATOM	1911	CD1	LEU	B	344	42.975	65.656	31.836	1.00	25.86	B	C
	ATOM	1912	CD2	LEU	B	344	43.608	66.911	33.908	1.00	27.51	B	C
20	ATOM	1913	C	LEU	B	344	43.393	68.578	29.849	1.00	28.78	B	C
	ATOM	1914	O	LEU	B	344	42.349	68.086	29.419	1.00	28.29	B	O
	ATOM	1915	N	PHE	B	345	43.556	69.886	30.012	1.00	30.19	B	N
	ATOM	1916	CA	PHE	B	345	42.473	70.808	29.688	1.00	32.93	B	C
	ATOM	1917	CB	PHE	B	345	42.816	72.223	30.168	1.00	31.67	B	C
	ATOM	1918	CG	PHE	B	345	42.512	72.452	31.627	1.00	30.31	B	C
25	ATOM	1919	CD1	PHE	B	345	41.202	72.400	32.095	1.00	30.45	B	C
	ATOM	1920	CD2	PHE	B	345	43.536	72.692	32.537	1.00	29.90	B	C
	ATOM	1921	CE1	PHE	B	345	40.917	72.580	33.448	1.00	28.83	B	C
	ATOM	1922	CE2	PHE	B	345	43.261	72.875	33.895	1.00	29.89	B	C
30	ATOM	1923	CZ	PHE	B	345	41.946	72.817	34.349	1.00	27.72	B	C
	ATOM	1924	C	PHE	B	345	42.219	70.789	28.181	1.00	33.96	B	C
	ATOM	1925	O	PHE	B	345	41.110	71.077	27.719	1.00	34.20	B	O
	ATOM	1926	N	ASP	B	346	43.254	70.439	27.423	1.00	35.94	B	N
	ATOM	1927	CA	ASP	B	346	43.158	70.348	25.970	1.00	36.21	B	C
35	ATOM	1928	CB	ASP	B	346	44.545	70.200	25.356	1.00	39.41	B	C
	ATOM	1929	CG	ASP	B	346	45.151	71.524	24.976	1.00	40.80	B	C
	ATOM	1930	OD1	ASP	B	346	44.489	72.561	25.186	1.00	44.30	B	O
	ATOM	1931	OD2	ASP	B	346	46.292	71.530	24.470	1.00	45.08	B	O
	ATOM	1932	C	ASP	B	346	42.323	69.127	25.617	1.00	35.62	B	C
40	ATOM	1933	O	ASP	B	346	41.430	69.191	24.778	1.00	36.45	B	O
	ATOM	1934	N	LYS	B	347	42.632	68.012	26.265	1.00	35.21	B	N
	ATOM	1935	CA	LYS	B	347	41.907	66.772	26.046	1.00	34.74	B	C
	ATOM	1936	CB	LYS	B	347	42.519	65.654	26.896	1.00	36.70	B	C
	ATOM	1937	CG	LYS	B	347	41.931	64.278	26.644	1.00	39.28	B	C
45	ATOM	1938	CD	LYS	B	347	41.278	63.713	27.895	1.00	43.34	B	C
	ATOM	1939	CE	LYS	B	347	42.204	62.752	28.617	1.00	44.66	B	C
	ATOM	1940	NZ	LYS	B	347	41.769	61.338	28.465	1.00	46.16	B	N
	ATOM	1941	C	LYS	B	347	40.457	66.987	26.449	1.00	34.58	B	C
	ATOM	1942	O	LYS	B	347	39.557	66.326	25.935	1.00	35.35	B	O
50	ATOM	1943	N	LEU	B	348	40.237	67.917	27.376	1.00	33.10	B	N
	ATOM	1944	CA	LEU	B	348	38.895	68.214	27.858	1.00	33.01	B	C
	ATOM	1945	CB	LEU	B	348	38.946	68.654	29.323	1.00	32.57	B	C
	ATOM	1946	CG	LEU	B	348	39.342	67.576	30.336	1.00	32.38	B	C
	ATOM	1947	CD1	LEU	B	348	39.399	68.189	31.722	1.00	31.13	B	C
55	ATOM	1948	CD2	LEU	B	348	38.344	66.422	30.299	1.00	31.41	B	C
	ATOM	1949	C	LEU	B	348	38.232	69.294	27.019	1.00	34.06	B	C
	ATOM	1950	O	LEU	B	348	37.023	69.501	27.105	1.00	34.87	B	O
	ATOM	1951	N	LYS	B	349	39.033	69.982	26.214	1.00	35.62	B	N
	ATOM	1952	CA	LYS	B	349	38.538	71.039	25.339	1.00	36.51	B	C
60	ATOM	1953	CB	LYS	B	349	37.375	70.496	24.486	1.00	40.16	B	C
	ATOM	1954	CG	LYS	B	349	36.565	71.537	23.712	1.00	45.32	B	C
	ATOM	1955	CD	LYS	B	349	35.116	71.620	24.223	1.00	49.01	B	C
	ATOM	1956	CE	LYS	B	349	34.599	73.060	24.241	1.00	51.69	B	C
	ATOM	1957	NZ	LYS	B	349	34.729	73.742	22.910	1.00	54.14	B	N
65	ATOM	1958	C	LYS	B	349	38.105	72.278	26.126	1.00	36.12	B	C
	ATOM	1959	O	LYS	B	349	37.014	72.809	25.922	1.00	36.10	B	O
	ATOM	1960	N	LEU	B	350	38.958	72.743	27.034	1.00	33.99	B	N
	ATOM	1961	CA	LEU	B	350	38.625	73.933	27.811	1.00	32.39	B	C
	ATOM	1962	CB	LEU	B	350	37.891	73.577	29.112	1.00	31.60	B	C

	ATOM	1963	CG	LEU	B	350	37.244	72.212	29.340	1.00	32.90	B	C
	ATOM	1964	CD1	LEU	B	350	37.585	71.709	30.738	1.00	31.94	B	C
	ATOM	1965	CD2	LEU	B	350	35.738	72.335	29.172	1.00	32.57	B	C
5	ATOM	1966	C	LEU	B	350	39.837	74.751	28.186	1.00	32.40	B	C
	ATOM	1967	O	LEU	B	350	40.965	74.259	28.181	1.00	32.24	B	O
	ATOM	1968	N	HIS	B	351	39.594	76.017	28.495	1.00	32.47	B	N
	ATOM	1969	CA	HIS	B	351	40.659	76.884	28.952	1.00	33.94	B	C
	ATOM	1970	CB	HIS	B	351	40.909	78.052	28.006	1.00	35.41	B	C
10	ATOM	1971	CG	HIS	B	351	42.173	78.789	28.318	1.00	38.03	B	C
	ATOM	1972	CD2	HIS	B	351	42.470	79.670	29.303	1.00	39.22	B	C
	ATOM	1973	ND1	HIS	B	351	43.345	78.583	27.623	1.00	39.03	B	N
	ATOM	1974	CE1	HIS	B	351	44.309	79.304	28.168	1.00	40.79	B	C
	ATOM	1975	NE2	HIS	B	351	43.804	79.972	29.189	1.00	40.55	B	N
15	ATOM	1976	C	HIS	B	351	40.218	77.408	30.310	1.00	33.05	B	C
	ATOM	1977	O	HIS	B	351	39.251	78.162	30.415	1.00	32.36	B	O
	ATOM	1978	N	PRO	B	352	40.916	76.992	31.374	1.00	32.92	B	N
	ATOM	1979	CD	PRO	B	352	42.064	76.074	31.336	1.00	32.79	B	C
	ATOM	1980	CA	PRO	B	352	40.599	77.412	32.740	1.00	33.02	B	C
20	ATOM	1981	CB	PRO	B	352	41.890	77.135	33.520	1.00	32.92	B	C
	ATOM	1982	CG	PRO	B	352	42.822	76.435	32.565	1.00	31.81	B	C
	ATOM	1983	C	PRO	B	352	40.152	78.864	32.873	1.00	32.88	B	C
	ATOM	1984	O	PRO	B	352	39.248	79.170	33.650	1.00	33.44	B	O
	ATOM	1985	N	TYR	B	353	40.768	79.755	32.103	1.00	32.39	B	N
25	ATOM	1986	CA	TYR	B	353	40.439	81.174	32.181	1.00	31.15	B	C
	ATOM	1987	CB	TYR	B	353	41.519	81.995	31.474	1.00	31.78	B	C
	ATOM	1988	CG	TYR	B	353	42.879	81.883	32.136	1.00	34.57	B	C
	ATOM	1989	CD1	TYR	B	353	43.027	81.241	33.371	1.00	35.28	B	C
	ATOM	1990	CE1	TYR	B	353	44.277	81.119	33.981	1.00	35.42	B	C
30	ATOM	1991	CD2	TYR	B	353	44.022	82.405	31.525	1.00	34.57	B	C
	ATOM	1992	CE2	TYR	B	353	45.282	82.288	32.127	1.00	34.21	B	C
	ATOM	1993	CZ	TYR	B	353	45.401	81.644	33.353	1.00	36.60	B	C
	ATOM	1994	OH	TYR	B	353	46.639	81.518	33.950	1.00	36.09	B	O
	ATOM	1995	C	TYR	B	353	39.058	81.558	31.664	1.00	30.03	B	C
35	ATOM	1996	O	TYR	B	353	38.553	82.628	31.997	1.00	29.31	B	O
	ATOM	1997	N	ASP	B	354	38.443	80.690	30.866	1.00	28.53	B	N
	ATOM	1998	CA	ASP	B	354	37.105	80.959	30.334	1.00	28.30	B	C
	ATOM	1999	CB	ASP	B	354	36.922	80.319	28.954	1.00	30.35	B	C
	ATOM	2000	CG	ASP	B	354	37.916	80.832	27.936	1.00	32.79	B	C
40	ATOM	2001	OD1	ASP	B	354	38.303	82.016	28.028	1.00	34.22	B	O
	ATOM	2002	OD2	ASP	B	354	38.312	80.048	27.047	1.00	33.80	B	O
	ATOM	2003	C	ASP	B	354	36.046	80.400	31.269	1.00	26.55	B	C
	ATOM	2004	O	ASP	B	354	34.854	80.674	31.108	1.00	26.52	B	O
	ATOM	2005	N	LEU	B	355	36.491	79.608	32.240	1.00	24.02	B	N
45	ATOM	2006	CA	LEU	B	355	35.585	78.998	33.195	1.00	21.79	B	C
	ATOM	2007	CB	LEU	B	355	36.362	78.112	34.159	1.00	19.35	B	C
	ATOM	2008	CG	LEU	B	355	36.747	76.783	33.507	1.00	19.89	B	C
	ATOM	2009	CD1	LEU	B	355	37.608	75.961	34.460	1.00	19.66	B	C
	ATOM	2010	CD2	LEU	B	355	35.482	76.020	33.118	1.00	19.57	B	C
50	ATOM	2011	C	LEU	B	355	34.787	80.040	33.952	1.00	21.35	B	C
	ATOM	2012	O	LEU	B	355	35.251	81.154	34.196	1.00	21.21	B	O
	ATOM	2013	N	THR	B	356	33.575	79.652	34.317	1.00	20.13	B	N
	ATOM	2014	CA	THR	B	356	32.637	80.508	35.018	1.00	19.90	B	C
	ATOM	2015	CB	THR	B	356	31.625	81.034	33.983	1.00	19.90	B	C
55	ATOM	2016	OG1	THR	B	356	32.112	82.262	33.430	1.00	23.57	B	O
	ATOM	2017	CG2	THR	B	356	30.275	81.247	34.584	1.00	21.58	B	C
	ATOM	2018	C	THR	B	356	31.964	79.592	36.044	1.00	20.44	B	C
	ATOM	2019	O	THR	B	356	32.159	78.379	35.976	1.00	22.19	B	O
	ATOM	2020	N	VAL	B	357	31.211	80.124	37.008	1.00	19.70	B	N
60	ATOM	2021	CA	VAL	B	357	30.546	79.212	37.941	1.00	19.61	B	C
	ATOM	2022	CB	VAL	B	357	29.895	79.937	39.181	1.00	19.36	B	C
	ATOM	2023	CG1	VAL	B	357	30.948	80.752	39.926	1.00	16.85	B	C
	ATOM	2024	CG2	VAL	B	357	28.737	80.804	38.753	1.00	19.37	B	C
	ATOM	2025	C	VAL	B	357	29.471	78.468	37.135	1.00	19.28	B	C
65	ATOM	2026	O	VAL	B	357	29.088	77.347	37.470	1.00	18.04	B	O
	ATOM	2027	N	ASP	B	358	29.007	79.091	36.051	1.00	19.17	B	N
	ATOM	2028	CA	ASP	B	358	28.008	78.477	35.175	1.00	18.85	B	C
	ATOM	2029	CB	ASP	B	358	27.563	79.455	34.087	1.00	20.47	B	C
	ATOM	2030	CG	ASP	B	358	26.694	80.570	34.614	1.00	21.60	B	C

5	ATOM	2031	OD1	ASP	B	358	25.996	80.368	35.633	1.00	23.74	B	O
	ATOM	2032	OD2	ASP	B	358	26.708	81.654	33.991	1.00	25.82	B	O
	ATOM	2033	C	ASP	B	358	28.602	77.239	34.496	1.00	17.30	B	C
	ATOM	2034	O	ASP	B	358	27.979	76.181	34.463	1.00	18.15	B	O
	ATOM	2035	N	SER	B	359	29.802	77.384	33.939	1.00	18.06	B	N
	ATOM	2036	CA	SER	B	359	30.476	76.274	33.269	1.00	19.05	B	C
	ATOM	2037	CB	SER	B	359	31.558	76.795	32.320	1.00	17.93	B	C
	ATOM	2038	OG	SER	B	359	32.252	77.891	32.879	1.00	20.68	B	O
10	ATOM	2039	C	SER	B	359	31.087	75.305	34.282	1.00	19.03	B	C
	ATOM	2040	O	SER	B	359	31.222	74.113	34.004	1.00	18.85	B	O
	ATOM	2041	N	LEU	B	360	31.468	75.816	35.450	1.00	19.91	B	N
	ATOM	2042	CA	LEU	B	360	32.018	74.964	36.503	1.00	19.52	B	C
15	ATOM	2043	CB	LEU	B	360	32.397	75.798	37.729	1.00	18.71	B	C
	ATOM	2044	CG	LEU	B	360	32.910	74.992	38.924	1.00	17.82	B	C
	ATOM	2045	CD1	LEU	B	360	34.156	74.195	38.520	1.00	15.78	B	C
	ATOM	2046	CD2	LEU	B	360	33.219	75.937	40.073	1.00	15.51	B	C
20	ATOM	2047	C	LEU	B	360	30.927	73.953	36.870	1.00	20.12	B	C
	ATOM	2048	O	LEU	B	360	31.207	72.793	37.169	1.00	19.65	B	O
	ATOM	2049	N	ASP	B	361	29.681	74.418	36.850	1.00	21.34	B	N
	ATOM	2050	CA	ASP	B	361	28.509	73.586	37.120	1.00	23.64	B	C
25	ATOM	2051	CB	ASP	B	361	28.170	72.798	35.844	1.00	25.61	B	C
	ATOM	2052	CG	ASP	B	361	26.688	72.479	35.714	1.00	27.09	B	C
	ATOM	2053	OD1	ASP	B	361	25.849	73.206	36.292	1.00	29.93	B	O
	ATOM	2054	OD2	ASP	B	361	26.364	71.493	35.019	1.00	27.73	B	O
30	ATOM	2055	C	ASP	B	361	28.594	72.616	38.311	1.00	24.33	B	C
	ATOM	2056	O	ASP	B	361	28.252	71.438	38.173	1.00	24.01	B	O
	ATOM	2057	N	VAL	B	362	29.022	73.097	39.476	1.00	24.20	B	N
	ATOM	2058	CA	VAL	B	362	29.108	72.221	40.646	1.00	24.84	B	C
35	ATOM	2059	CB	VAL	B	362	30.471	72.360	41.368	1.00	23.16	B	C
	ATOM	2060	CG1	VAL	B	362	31.590	71.899	40.456	1.00	22.13	B	C
	ATOM	2061	CG2	VAL	B	362	30.689	73.792	41.813	1.00	22.90	B	C
	ATOM	2062	C	VAL	B	362	27.986	72.486	41.653	1.00	25.61	B	C
40	ATOM	2063	O	VAL	B	362	27.858	71.784	42.651	1.00	26.28	B	O
	ATOM	2064	N	HIS	B	363	27.168	73.495	41.378	1.00	27.81	B	N
	ATOM	2065	CA	HIS	B	363	26.057	73.855	42.251	1.00	28.99	B	C
	ATOM	2066	CB	HIS	B	363	25.724	75.336	42.084	1.00	30.67	B	C
45	ATOM	2067	CG	HIS	B	363	25.151	75.976	43.310	1.00	34.13	B	C
	ATOM	2068	CD2	HIS	B	363	25.751	76.594	44.356	1.00	34.48	B	C
	ATOM	2069	ND1	HIS	B	363	23.793	76.056	43.542	1.00	34.72	B	N
	ATOM	2070	CE1	HIS	B	363	23.582	76.697	44.678	1.00	35.29	B	C
50	ATOM	2071	NE2	HIS	B	363	24.753	77.034	45.191	1.00	36.08	B	N
	ATOM	2072	C	HIS	B	363	24.828	73.029	41.914	1.00	29.83	B	C
	ATOM	2073	O	HIS	B	363	24.461	72.902	40.749	1.00	29.18	B	O
	ATOM	2074	N	ALA	B	364	24.194	72.467	42.938	1.00	31.56	B	N
55	ATOM	2075	CA	ALA	B	364	22.993	71.662	42.751	1.00	34.46	B	C
	ATOM	2076	CB	ALA	B	364	22.700	70.866	44.014	1.00	33.03	B	C
	ATOM	2077	C	ALA	B	364	21.813	72.574	42.421	1.00	36.94	B	C
	ATOM	2078	O	ALA	B	364	21.624	73.615	43.045	1.00	39.51	B	O
60	ATOM	2079	N	GLY	B	365	21.015	72.186	41.438	1.00	38.98	B	N
	ATOM	2080	CA	GLY	B	365	19.882	73.014	41.070	1.00	41.15	B	C
	ATOM	2081	C	GLY	B	365	18.553	72.342	41.337	1.00	42.39	B	C
	ATOM	2082	O	GLY	B	365	18.457	71.454	42.192	1.00	43.00	B	O
65	ATOM	2083	N	ARG	B	366	17.526	72.773	40.608	1.00	42.89	B	N
	ATOM	2084	CA	ARG	B	366	16.191	72.212	40.748	1.00	43.25	B	C
	ATOM	2085	CB	ARG	B	366	15.236	72.876	39.760	1.00	43.88	B	C
	ATOM	2086	CG	ARG	B	366	15.530	74.349	39.582	1.00	44.57	B	C
70	ATOM	2087	CD	ARG	B	366	14.291	75.187	39.735	1.00	44.53	B	C
	ATOM	2088	NE	ARG	B	366	14.223	76.150	38.647	1.00	44.28	B	N
	ATOM	2089	CZ	ARG	B	366	13.817	75.845	37.423	1.00	44.90	B	C
	ATOM	2090	NH1	ARG	B	366	13.440	74.603	37.149	1.00	44.31	B	N
75	ATOM	2091	NH2	ARG	B	366	13.821	76.766	36.468	1.00	44.56	B	N
	ATOM	2092	C	ARG	B	366	16.284	70.725	40.482	1.00	43.56	B	C
	ATOM	2093	O	ARG	B	366	15.523	69.930	41.039	1.00	44.36	B	O
	ATOM	2094	N	GLN	B	367	17.220	70.351	39.619	1.00	44.87	B	N
80	ATOM	2095	CA	GLN	B	367	17.435	68.945	39.322	1.00	47.82	B	C
	ATOM	2096	CB	GLN	B	367	18.196	68.793	38.006	1.00	51.38	B	C
	ATOM	2097	CG	GLN	B	367	19.135	67.599	37.954	1.00	56.27	B	C
	ATOM	2098	CD	GLN	B	367	20.536	67.981	37.496	1.00	59.36	B	C

	ATOM	2099	OE1	GLN	B	367	20.701	68.765	36.551	1.00	61.21	B	O
	ATOM	2100	NE2	GLN	B	367	21.553	67.430	38.161	1.00	60.03	B	N
	ATOM	2101	C	GLN	B	367	18.265	68.448	40.502	1.00	47.74	B	C
5	ATOM	2102	O	GLN	B	367	18.643	69.247	41.359	1.00	49.78	B	O
	ATOM	2103	N	THR	B	368	18.558	67.151	40.541	1.00	46.34	B	N
	ATOM	2104	CA	THR	B	368	19.309	66.527	41.642	1.00	43.62	B	C
	ATOM	2105	CB	THR	B	368	20.531	67.391	42.187	1.00	43.83	B	C
	ATOM	2106	OG1	THR	B	368	20.071	68.354	43.144	1.00	43.38	B	O
10	ATOM	2107	CG2	THR	B	368	21.277	68.097	41.053	1.00	43.29	B	C
	ATOM	2108	C	THR	B	368	18.339	66.250	42.797	1.00	41.61	B	C
	ATOM	2109	O	THR	B	368	18.601	65.379	43.630	1.00	41.68	B	O
	ATOM	2110	N	PHE	B	369	17.223	66.986	42.845	1.00	39.61	B	N
	ATOM	2111	CA	PHE	B	369	16.226	66.769	43.889	1.00	37.15	B	C
15	ATOM	2112	CB	PHE	B	369	15.055	67.754	43.772	1.00	35.05	B	C
	ATOM	2113	CG	PHE	B	369	14.069	67.668	44.922	1.00	34.03	B	C
	ATOM	2114	CD1	PHE	B	369	14.344	68.281	46.146	1.00	31.34	B	C
	ATOM	2115	CD2	PHE	B	369	12.873	66.962	44.784	1.00	32.46	B	C
	ATOM	2116	CE1	PHE	B	369	13.442	68.190	47.216	1.00	30.65	B	C
20	ATOM	2117	CE2	PHE	B	369	11.966	66.868	45.849	1.00	30.71	B	C
	ATOM	2118	CZ	PHE	B	369	12.254	67.483	47.066	1.00	29.09	B	C
	ATOM	2119	C	PHE	B	369	15.724	65.356	43.662	1.00	37.23	B	C
	ATOM	2120	O	PHE	B	369	15.044	65.084	42.672	1.00	36.67	B	O
	ATOM	2121	N	GLN	B	370	16.083	64.462	44.579	1.00	37.46	B	N
25	ATOM	2122	CA	GLN	B	370	15.714	63.055	44.495	1.00	37.03	B	C
	ATOM	2123	CB	GLN	B	370	14.201	62.897	44.441	1.00	37.54	B	C
	ATOM	2124	CG	GLN	B	370	13.623	62.290	45.697	1.00	38.78	B	C
	ATOM	2125	CD	GLN	B	370	12.425	63.058	46.177	1.00	40.45	B	C
	ATOM	2126	OE1	GLN	B	370	11.959	63.976	45.501	1.00	43.05	B	O
30	ATOM	2127	NE2	GLN	B	370	11.913	62.696	47.348	1.00	40.82	B	N
	ATOM	2128	C	GLN	B	370	16.361	62.411	43.269	1.00	37.33	B	C
	ATOM	2129	O	GLN	B	370	15.806	61.491	42.658	1.00	36.63	B	O
	ATOM	2130	N	ARG	B	371	17.537	62.926	42.917	1.00	36.70	B	N
	ATOM	2131	CA	ARG	B	371	18.332	62.428	41.800	1.00	35.23	B	C
35	ATOM	2132	CB	ARG	B	371	18.294	63.399	40.613	1.00	34.72	B	C
	ATOM	2133	CG	ARG	B	371	17.070	63.246	39.716	1.00	34.64	B	C
	ATOM	2134	CD	ARG	B	371	17.014	61.878	39.026	1.00	34.86	B	C
	ATOM	2135	NE	ARG	B	371	18.292	61.456	38.442	1.00	36.99	B	N
	ATOM	2136	CZ	ARG	B	371	18.661	61.662	37.174	1.00	39.02	B	C
40	ATOM	2137	NH1	ARG	B	371	17.857	62.292	36.327	1.00	39.44	B	N
	ATOM	2138	NH2	ARG	B	371	19.841	61.229	36.739	1.00	37.34	B	N
	ATOM	2139	C	ARG	B	371	19.736	62.362	42.371	1.00	34.68	B	C
	ATOM	2140	O	ARG	B	371	20.617	63.137	41.988	1.00	35.02	B	O
	ATOM	2141	N	PHE	B	372	19.927	61.446	43.313	1.00	33.86	B	N
45	ATOM	2142	CA	PHE	B	372	21.218	61.284	43.963	1.00	33.79	B	C
	ATOM	2143	CB	PHE	B	372	21.206	60.053	44.876	1.00	32.18	B	C
	ATOM	2144	CG	PHE	B	372	22.178	60.154	46.012	1.00	32.84	B	C
	ATOM	2145	CD1	PHE	B	372	21.803	60.757	47.212	1.00	31.17	B	C
	ATOM	2146	CD2	PHE	B	372	23.492	59.709	45.862	1.00	30.92	B	C
50	ATOM	2147	CE1	PHE	B	372	22.724	60.921	48.244	1.00	30.59	B	C
	ATOM	2148	CE2	PHE	B	372	24.419	59.868	46.884	1.00	30.94	B	C
	ATOM	2149	CZ	PHE	B	372	24.037	60.476	48.080	1.00	31.31	B	C
	ATOM	2150	C	PHE	B	372	22.369	61.174	42.963	1.00	33.85	B	C
	ATOM	2151	O	PHE	B	372	23.454	61.713	43.186	1.00	33.32	B	O
55	ATOM	2152	N	ASP	B	373	22.124	60.472	41.863	1.00	34.20	B	N
	ATOM	2153	CA	ASP	B	373	23.131	60.292	40.827	1.00	35.77	B	C
	ATOM	2154	CB	ASP	B	373	22.551	59.464	39.683	1.00	37.41	B	C
	ATOM	2155	CG	ASP	B	373	21.164	59.927	39.278	1.00	39.85	B	C
	ATOM	2156	OD1	ASP	B	373	20.638	60.872	39.909	1.00	41.35	B	O
60	ATOM	2157	OD2	ASP	B	373	20.601	59.345	38.325	1.00	42.59	B	O
	ATOM	2158	C	ASP	B	373	23.617	61.643	40.292	1.00	35.43	B	C
	ATOM	2159	O	ASP	B	373	24.814	61.829	40.023	1.00	34.41	B	O
	ATOM	2160	N	LYS	B	374	22.685	62.580	40.142	1.00	34.34	B	N
65	ATOM	2161	CA	LYS	B	374	23.015	63.909	39.646	1.00	34.66	B	C
	ATOM	2162	CB	LYS	B	374	21.754	64.612	39.159	1.00	35.50	B	C
	ATOM	2163	CG	LYS	B	374	21.011	63.813	38.109	1.00	38.20	B	C
	ATOM	2164	CD	LYS	B	374	19.965	64.647	37.408	1.00	38.71	B	C
	ATOM	2165	CE	LYS	B	374	20.475	65.135	36.064	1.00	41.14	B	C
	ATOM	2166	NZ	LYS	B	374	19.363	65.677	35.230	1.00	42.69	B	N

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5	ATOM	2167	C	LYS	B	374	23.693	64.740	40.722	1.00	34.35	B	C
	ATOM	2168	O	LYS	B	374	24.392	65.712	40.423	1.00	33.83	B	O
	ATOM	2169	N	PHE	B	375	23.487	64.358	41.978	1.00	34.80	B	N
	ATOM	2170	CA	PHE	B	375	24.112	65.067	43.087	1.00	35.22	B	C
	ATOM	2171	CB	PHE	B	375	23.399	64.744	44.407	1.00	33.47	B	C
	ATOM	2172	CG	PHE	B	375	24.267	64.942	45.616	1.00	33.39	B	C
	ATOM	2173	CD1	PHE	B	375	24.644	66.228	46.011	1.00	33.64	B	C
	ATOM	2174	CD2	PHE	B	375	24.779	63.846	46.309	1.00	33.30	B	C
10	ATOM	2175	CE1	PHE	B	375	25.525	66.425	47.074	1.00	32.00	B	C
	ATOM	2176	CE2	PHE	B	375	25.660	64.026	47.374	1.00	32.60	B	C
	ATOM	2177	CZ	PHE	B	375	26.036	65.324	47.755	1.00	32.89	B	C
	ATOM	2178	C	PHE	B	375	25.586	64.647	43.177	1.00	35.28	B	C
15	ATOM	2179	O	PHE	B	375	26.482	65.488	43.327	1.00	34.36	B	O
	ATOM	2180	N	ASN	B	376	25.828	63.343	43.074	1.00	36.73	B	N
	ATOM	2181	CA	ASN	B	376	27.179	62.806	43.153	1.00	40.22	B	C
	ATOM	2182	CB	ASN	B	376	27.129	61.282	43.286	1.00	41.07	B	C
20	ATOM	2183	CG	ASN	B	376	28.012	60.770	44.410	1.00	43.41	B	C
	ATOM	2184	OD1	ASN	B	376	28.974	61.434	44.821	1.00	44.40	B	O
	ATOM	2185	ND2	ASN	B	376	27.692	59.586	44.915	1.00	42.85	B	N
	ATOM	2186	C	ASN	B	376	28.043	63.192	41.951	1.00	42.48	B	C
25	ATOM	2187	O	ASN	B	376	29.268	63.320	42.058	1.00	43.10	B	O
	ATOM	2188	N	ASP	B	377	27.415	63.374	40.799	1.00	44.10	B	N
	ATOM	2189	CA	ASP	B	377	28.180	63.756	39.634	1.00	46.39	B	C
	ATOM	2190	CB	ASP	B	377	27.491	63.256	38.367	1.00	49.21	B	C
30	ATOM	2191	CG	ASP	B	377	27.947	61.848	37.987	1.00	52.90	B	C
	ATOM	2192	OD1	ASP	B	377	28.653	61.211	38.808	1.00	53.90	B	O
	ATOM	2193	OD2	ASP	B	377	27.609	61.382	36.875	1.00	55.09	B	O
	ATOM	2194	C	ASP	B	377	28.387	65.265	39.617	1.00	46.66	B	C
35	ATOM	2195	O	ASP	B	377	28.990	65.812	38.698	1.00	47.67	B	O
	ATOM	2196	N	LYS	B	378	27.893	65.930	40.656	1.00	47.51	B	N
	ATOM	2197	CA	LYS	B	378	28.053	67.373	40.788	1.00	47.57	B	C
	ATOM	2198	CB	LYS	B	378	27.036	67.935	41.785	1.00	48.77	B	C
40	ATOM	2199	CG	LYS	B	378	26.396	69.239	41.354	1.00	49.53	B	C
	ATOM	2200	CD	LYS	B	378	25.304	68.997	40.331	1.00	50.90	B	C
	ATOM	2201	CE	LYS	B	378	25.427	69.945	39.157	1.00	50.14	B	C
	ATOM	2202	NZ	LYS	B	378	24.154	70.673	38.934	1.00	53.59	B	N
45	ATOM	2203	C	LYS	B	378	29.470	67.600	41.305	1.00	46.72	B	C
	ATOM	2204	O	LYS	B	378	30.011	68.707	41.238	1.00	45.73	B	O
	ATOM	2205	N	TYR	B	379	30.060	66.529	41.828	1.00	46.65	B	N
	ATOM	2206	CA	TYR	B	379	31.415	66.574	42.356	1.00	47.10	B	C
50	ATOM	2207	CB	TYR	B	379	31.725	65.307	43.156	1.00	51.31	B	C
	ATOM	2208	CG	TYR	B	379	31.299	65.351	44.605	1.00	56.26	B	C
	ATOM	2209	CD1	TYR	B	379	30.838	64.202	45.244	1.00	58.32	B	C
	ATOM	2210	CE1	TYR	B	379	30.447	64.228	46.579	1.00	59.67	B	C
55	ATOM	2211	CD2	TYR	B	379	31.358	66.537	45.340	1.00	58.83	B	C
	ATOM	2212	CE2	TYR	B	379	30.968	66.575	46.677	1.00	59.92	B	C
	ATOM	2213	CZ	TYR	B	379	30.514	65.417	47.291	1.00	59.84	B	C
	ATOM	2214	OH	TYR	B	379	30.140	65.442	48.614	1.00	58.95	B	O
60	ATOM	2215	C	TYR	B	379	32.390	66.668	41.197	1.00	45.09	B	C
	ATOM	2216	O	TYR	B	379	33.602	66.752	41.402	1.00	45.89	B	O
	ATOM	2217	N	ASN	B	380	31.853	66.629	39.979	1.00	41.12	B	N
	ATOM	2218	CA	ASN	B	380	32.674	66.713	38.776	1.00	35.86	B	C
65	ATOM	2219	CB	ASN	B	380	32.114	65.809	37.679	1.00	34.89	B	C
	ATOM	2220	CG	ASN	B	380	32.213	64.347	38.029	1.00	34.29	B	C
	ATOM	2221	OD1	ASN	B	380	33.112	63.929	38.760	1.00	34.17	B	O
	ATOM	2222	ND2	ASN	B	380	31.288	63.552	37.505	1.00	34.67	B	N
70	ATOM	2223	C	ASN	B	380	32.720	68.138	38.252	1.00	32.45	B	C
	ATOM	2224	O	ASN	B	380	31.767	68.605	37.630	1.00	31.23	B	O
	ATOM	2225	N	PRO	B	381	33.827	68.853	38.506	1.00	28.96	B	N
	ATOM	2226	CD	PRO	B	381	35.030	68.427	39.235	1.00	27.13	B	C
75	ATOM	2227	CA	PRO	B	381	33.931	70.232	38.021	1.00	28.44	B	C
	ATOM	2228	CB	PRO	B	381	35.316	70.683	38.483	1.00	26.51	B	C
	ATOM	2229	CG	PRO	B	381	35.712	69.720	39.535	1.00	27.82	B	C
	ATOM	2230	C	PRO	B	381	33.803	70.242	36.494	1.00	28.13	B	C
80	ATOM	2231	O	PRO	B	381	34.384	69.399	35.810	1.00	27.58	B	O
	ATOM	2232	N	VAL	B	382	33.035	71.191	35.974	1.00	28.20	B	N
	ATOM	2233	CA	VAL	B	382	32.806	71.313	34.539	1.00	28.55	B	C
	ATOM	2234	CB	VAL	B	382	34.046	71.926	33.827	1.00	29.16	B	C

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	ATOM	2235	CG1	VAL	B	382	35.025	70.851	33.434	1.00	31.47	B	C
	ATOM	2236	CG2	VAL	B	382	33.605	72.703	32.607	1.00	29.55	B	C
	ATOM	2237	C	VAL	B	382	32.415	69.973	33.900	1.00	28.59	B	C
5	ATOM	2238	O	VAL	B	382	32.619	69.751	32.707	1.00	28.52	B	O
	ATOM	2239	N	GLY	B	383	31.845	69.087	34.712	1.00	27.99	B	N
	ATOM	2240	CA	GLY	B	383	31.398	67.789	34.228	1.00	25.96	B	C
	ATOM	2241	C	GLY	B	383	32.470	66.762	33.917	1.00	25.12	B	C
	ATOM	2242	O	GLY	B	383	32.177	65.723	33.325	1.00	24.74	B	O
10	ATOM	2243	N	ALA	B	384	33.708	67.033	34.315	1.00	24.33	B	N
	ATOM	2244	CA	ALA	B	384	34.809	66.114	34.048	1.00	24.14	B	C
	ATOM	2245	CB	ALA	B	384	35.964	66.873	33.421	1.00	23.38	B	C
	ATOM	2246	C	ALA	B	384	35.298	65.374	35.292	1.00	23.98	B	C
	ATOM	2247	O	ALA	B	384	35.795	65.987	36.228	1.00	25.48	B	O
15	ATOM	2248	N	SER	B	385	35.167	64.052	35.293	1.00	24.38	B	N
	ATOM	2249	CA	SER	B	385	35.618	63.256	36.425	1.00	24.13	B	C
	ATOM	2250	CB	SER	B	385	35.240	61.783	36.223	1.00	23.81	B	C
	ATOM	2251	OG	SER	B	385	36.146	61.123	35.357	1.00	28.64	B	O
	ATOM	2252	C	SER	B	385	37.129	63.406	36.595	1.00	23.64	B	C
20	ATOM	2253	O	SER	B	385	37.651	63.294	37.700	1.00	24.76	B	O
	ATOM	2254	N	GLU	B	386	37.823	63.667	35.491	1.00	23.55	B	N
	ATOM	2255	CA	GLU	B	386	39.275	63.854	35.505	1.00	24.57	B	C
	ATOM	2256	CB	GLU	B	386	39.797	64.156	34.092	1.00	24.25	B	C
	ATOM	2257	CG	GLU	B	386	39.785	62.977	33.131	1.00	25.77	B	C
25	ATOM	2258	CD	GLU	B	386	38.472	62.851	32.368	1.00	28.39	B	C
	ATOM	2259	OE1	GLU	B	386	38.315	61.867	31.608	1.00	31.43	B	O
	ATOM	2260	OE2	GLU	B	386	37.595	63.729	32.527	1.00	28.19	B	O
	ATOM	2261	C	GLU	B	386	39.642	65.023	36.413	1.00	24.03	B	C
	ATOM	2262	O	GLU	B	386	40.647	64.985	37.116	1.00	23.46	B	O
30	ATOM	2263	N	LEU	B	387	38.821	66.069	36.377	1.00	24.13	B	N
	ATOM	2264	CA	LEU	B	387	39.050	67.260	37.185	1.00	23.70	B	C
	ATOM	2265	CB	LEU	B	387	38.250	68.429	36.611	1.00	23.69	B	C
	ATOM	2266	CG	LEU	B	387	38.680	68.872	35.204	1.00	21.33	B	C
	ATOM	2267	CD1	LEU	B	387	37.868	70.077	34.779	1.00	19.74	B	C
35	ATOM	2268	CD2	LEU	B	387	40.157	69.209	35.190	1.00	20.22	B	C
	ATOM	2269	C	LEU	B	387	38.692	67.028	38.654	1.00	24.12	B	C
	ATOM	2270	O	LEU	B	387	39.276	67.639	39.545	1.00	23.80	B	O
	ATOM	2271	N	ARG	B	388	37.730	66.148	38.902	1.00	24.26	B	N
	ATOM	2272	CA	ARG	B	388	37.351	65.826	40.266	1.00	26.77	B	C
40	ATOM	2273	CB	ARG	B	388	36.080	64.969	40.285	1.00	31.44	B	C
	ATOM	2274	CG	ARG	B	388	35.985	64.003	41.464	1.00	36.73	B	C
	ATOM	2275	CD	ARG	B	388	34.546	63.779	41.897	1.00	41.54	B	C
	ATOM	2276	NE	ARG	B	388	34.437	62.728	42.909	1.00	47.47	B	N
	ATOM	2277	CZ	ARG	B	388	33.298	62.129	43.259	1.00	50.25	B	C
45	ATOM	2278	NH1	ARG	B	388	32.148	62.470	42.685	1.00	51.10	B	N
	ATOM	2279	NH2	ARG	B	388	33.308	61.178	44.184	1.00	52.23	B	N
	ATOM	2280	C	ARG	B	388	38.518	65.042	40.865	1.00	26.39	B	C
	ATOM	2281	O	ARG	B	388	38.956	65.310	41.980	1.00	25.36	B	O
	ATOM	2282	N	ASP	B	389	39.023	64.076	40.105	1.00	24.86	B	N
50	ATOM	2283	CA	ASP	B	389	40.138	63.249	40.546	1.00	23.77	B	C
	ATOM	2284	CB	ASP	B	389	40.513	62.250	39.459	1.00	23.75	B	C
	ATOM	2285	CG	ASP	B	389	39.539	61.107	39.364	1.00	28.25	B	C
	ATOM	2286	OD1	ASP	B	389	39.637	60.332	38.390	1.00	31.15	B	O
	ATOM	2287	OD2	ASP	B	389	38.673	60.979	40.259	1.00	31.98	B	O
55	ATOM	2288	C	ASP	B	389	41.365	64.075	40.862	1.00	23.49	B	C
	ATOM	2289	O	ASP	B	389	42.142	63.738	41.755	1.00	23.36	B	O
	ATOM	2290	N	LEU	B	390	41.537	65.161	40.117	1.00	22.63	B	N
	ATOM	2291	CA	LEU	B	390	42.698	66.022	40.267	1.00	22.06	B	C
	ATOM	2292	CB	LEU	B	390	42.963	66.729	38.934	1.00	20.86	B	C
60	ATOM	2293	CG	LEU	B	390	44.052	67.806	38.886	1.00	22.56	B	C
	ATOM	2294	CD1	LEU	B	390	45.400	67.193	39.222	1.00	19.78	B	C
	ATOM	2295	CD2	LEU	B	390	44.085	68.439	37.497	1.00	20.49	B	C
	ATOM	2296	C	LEU	B	390	42.651	67.057	41.388	1.00	21.84	B	C
	ATOM	2297	O	LEU	B	390	43.635	67.239	42.107	1.00	21.39	B	O
65	ATOM	2298	N	TYR	B	391	41.511	67.725	41.537	1.00	22.43	B	N
	ATOM	2299	CA	TYR	B	391	41.353	68.777	42.537	1.00	21.24	B	C
	ATOM	2300	CB	TYR	B	391	40.598	69.962	41.907	1.00	20.18	B	C
	ATOM	2301	CG	TYR	B	391	41.349	70.689	40.812	1.00	20.08	B	C
	ATOM	2302	CD1	TYR	B	391	42.301	71.665	41.120	1.00	19.66	B	C

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	ATOM	2303	CE1	TYR	B	391	43.002	72.329	40.125	1.00	19.77	B	C
	ATOM	2304	CD2	TYR	B	391	41.116	70.397	39.465	1.00	20.86	B	C
	ATOM	2305	CE2	TYR	B	391	41.821	71.061	38.450	1.00	21.83	B	C
5	ATOM	2306	CZ	TYR	B	391	42.762	72.022	38.790	1.00	21.87	B	C
	ATOM	2307	OH	TYR	B	391	43.477	72.665	37.802	1.00	20.62	B	O
	ATOM	2308	C	TYR	B	391	40.644	68.396	43.843	1.00	21.00	B	C
	ATOM	2309	O	TYR	B	391	40.834	69.060	44.866	1.00	20.72	B	O
	ATOM	2310	N	LEU	B	392	39.835	67.340	43.813	1.00	19.40	B	N
10	ATOM	2311	CA	LEU	B	392	39.065	66.957	44.987	1.00	19.39	B	C
	ATOM	2312	CB	LEU	B	392	37.574	67.179	44.712	1.00	17.93	B	C
	ATOM	2313	CG	LEU	B	392	37.188	68.530	44.094	1.00	18.16	B	C
	ATOM	2314	CD1	LEU	B	392	35.716	68.532	43.729	1.00	17.69	B	C
	ATOM	2315	CD2	LEU	B	392	37.488	69.651	45.072	1.00	18.77	B	C
	ATOM	2316	C	LEU	B	392	39.267	65.547	45.506	1.00	21.39	B	C
15	ATOM	2317	O	LEU	B	392	38.351	64.968	46.096	1.00	22.96	B	O
	ATOM	2318	N	LYS	B	393	40.453	64.987	45.296	1.00	20.58	B	N
	ATOM	2319	CA	LYS	B	393	40.732	63.642	45.779	1.00	20.28	B	C
	ATOM	2320	CB	LYS	B	393	40.722	62.646	44.628	1.00	21.73	B	C
20	ATOM	2321	CG	LYS	B	393	39.344	62.399	44.067	1.00	23.93	B	C
	ATOM	2322	CD	LYS	B	393	39.037	60.927	44.029	1.00	27.13	B	C
	ATOM	2323	CE	LYS	B	393	37.717	60.668	43.331	1.00	29.46	B	C
	ATOM	2324	NZ	LYS	B	393	37.468	59.207	43.190	1.00	33.09	B	N
	ATOM	2325	C	LYS	B	393	42.079	63.625	46.465	1.00	20.65	B	C
25	ATOM	2326	O	LYS	B	393	42.925	64.475	46.200	1.00	20.36	B	O
	ATOM	2327	N	THR	B	394	42.280	62.660	47.354	1.00	20.80	B	N
	ATOM	2328	CA	THR	B	394	43.539	62.567	48.080	1.00	21.33	B	C
	ATOM	2329	CB	THR	B	394	43.308	62.044	49.530	1.00	18.87	B	C
	ATOM	2330	OG1	THR	B	394	42.801	60.707	49.494	1.00	20.22	B	O
30	ATOM	2331	CG2	THR	B	394	42.310	62.924	50.253	1.00	16.48	B	C
	ATOM	2332	C	THR	B	394	44.547	61.675	47.358	1.00	22.12	B	C
	ATOM	2333	O	THR	B	394	45.761	61.850	47.490	1.00	22.02	B	O
	ATOM	2334	N	ASP	B	395	44.041	60.724	46.584	1.00	24.00	B	N
	ATOM	2335	CA	ASP	B	395	44.904	59.810	45.852	1.00	26.84	B	C
35	ATOM	2336	CB	ASP	B	395	44.521	58.361	46.157	1.00	30.73	B	C
	ATOM	2337	CG	ASP	B	395	45.548	57.363	45.638	1.00	35.34	B	C
	ATOM	2338	OD1	ASP	B	395	46.745	57.727	45.550	1.00	38.17	B	O
	ATOM	2339	OD2	ASP	B	395	45.162	56.216	45.320	1.00	38.78	B	O
	ATOM	2340	C	ASP	B	395	44.835	60.042	44.351	1.00	26.30	B	C
40	ATOM	2341	O	ASP	B	395	43.788	59.860	43.734	1.00	26.42	B	O
	ATOM	2342	N	ASN	B	396	45.958	60.452	43.771	1.00	25.83	B	N
	ATOM	2343	CA	ASN	B	396	46.040	60.688	42.339	1.00	25.38	B	C
	ATOM	2344	CB	ASN	B	396	45.254	61.947	41.946	1.00	24.52	B	C
	ATOM	2345	CG	ASN	B	396	45.795	63.209	42.590	1.00	23.06	B	C
45	ATOM	2346	OD1	ASN	B	396	45.104	64.225	42.651	1.00	23.22	B	O
	ATOM	2347	ND2	ASN	B	396	47.030	63.154	43.071	1.00	22.11	B	N
	ATOM	2348	C	ASN	B	396	47.491	60.814	41.911	1.00	25.00	B	C
	ATOM	2349	O	ASN	B	396	48.399	60.578	42.704	1.00	26.39	B	O
	ATOM	2350	N	TYR	B	397	47.705	61.203	40.661	1.00	25.67	B	N
50	ATOM	2351	CA	TYR	B	397	49.050	61.330	40.126	1.00	25.95	B	C
	ATOM	2352	CB	TYR	B	397	49.002	61.753	38.658	1.00	26.80	B	C
	ATOM	2353	CG	TYR	B	397	50.326	61.578	37.952	1.00	27.39	B	C
	ATOM	2354	CD1	TYR	B	397	51.252	62.622	37.900	1.00	27.82	B	C
	ATOM	2355	CE1	TYR	B	397	52.486	62.460	37.273	1.00	29.95	B	C
55	ATOM	2356	CD2	TYR	B	397	50.665	60.361	37.355	1.00	28.69	B	C
	ATOM	2357	CE2	TYR	B	397	51.900	60.186	36.722	1.00	29.89	B	C
	ATOM	2358	CZ	TYR	B	397	52.804	61.238	36.684	1.00	31.11	B	C
	ATOM	2359	OH	TYR	B	397	54.019	61.072	36.054	1.00	32.35	B	O
	ATOM	2360	C	TYR	B	397	49.933	62.291	40.902	1.00	26.44	B	C
60	ATOM	2361	O	TYR	B	397	51.138	62.066	41.021	1.00	26.73	B	O
	ATOM	2362	N	ILE	B	398	49.353	63.372	41.414	1.00	26.86	B	N
	ATOM	2363	CA	ILE	B	398	50.142	64.327	42.184	1.00	26.76	B	C
	ATOM	2364	CB	ILE	B	398	49.846	65.789	41.765	1.00	25.49	B	C
	ATOM	2365	CG2	ILE	B	398	50.410	66.038	40.384	1.00	25.58	B	C
65	ATOM	2366	CG1	ILE	B	398	48.344	66.065	41.766	1.00	23.92	B	C
	ATOM	2367	CD1	ILE	B	398	48.016	67.532	41.809	1.00	21.14	B	C
	ATOM	2368	C	ILE	B	398	49.927	64.162	43.691	1.00	27.30	B	C
	ATOM	2369	O	ILE	B	398	50.118	65.099	44.460	1.00	27.82	B	O
	ATOM	2370	N	ASN	B	399	49.533	62.956	44.096	1.00	27.79	B	N

	ATOM	2371	CA	ASN	B	399	49.307	62.620	45.504	1.00	27.28	B	C
	ATOM	2372	CB	ASN	B	399	50.651	62.527	46.239	1.00	27.97	B	C
	ATOM	2373	CG	ASN	B	399	51.632	61.588	45.553	1.00	30.20	B	C
5	ATOM	2374	OD1	ASN	B	399	51.284	60.462	45.190	1.00	32.08	B	O
	ATOM	2375	ND2	ASN	B	399	52.867	62.049	45.373	1.00	28.40	B	N
	ATOM	2376	C	ASN	B	399	48.380	63.568	46.267	1.00	25.97	B	C
	ATOM	2377	O	ASN	B	399	48.713	64.022	47.358	1.00	25.53	B	O
	ATOM	2378	N	GLY	B	400	47.221	63.859	45.687	1.00	25.65	B	N
10	ATOM	2379	CA	GLY	B	400	46.246	64.727	46.324	1.00	24.76	B	C
	ATOM	2380	C	GLY	B	400	46.715	66.090	46.795	1.00	23.41	B	C
	ATOM	2381	O	GLY	B	400	46.075	66.710	47.641	1.00	23.38	B	O
	ATOM	2382	N	GLU	B	401	47.812	66.580	46.236	1.00	22.71	B	N
	ATOM	2383	CA	GLU	B	401	48.346	67.876	46.643	1.00	22.67	B	C
15	ATOM	2384	CB	GLU	B	401	49.654	68.133	45.907	1.00	23.05	B	C
	ATOM	2385	CG	GLU	B	401	50.262	69.474	46.213	1.00	24.75	B	C
	ATOM	2386	CD	GLU	B	401	51.475	69.752	45.365	1.00	26.75	B	C
	ATOM	2387	OE1	GLU	B	401	52.364	68.875	45.315	1.00	25.90	B	O
	ATOM	2388	OE2	GLU	B	401	51.537	70.843	44.751	1.00	26.02	B	O
20	ATOM	2389	C	GLU	B	401	47.415	69.085	46.466	1.00	23.17	B	C
	ATOM	2390	O	GLU	B	401	47.432	70.008	47.288	1.00	23.22	B	O
	ATOM	2391	N	TYR	B	402	46.617	69.091	45.399	1.00	21.60	B	N
	ATOM	2392	CA	TYR	B	402	45.694	70.199	45.128	1.00	21.31	B	C
	ATOM	2393	CB	TYR	B	402	45.119	70.077	43.706	1.00	20.97	B	C
25	ATOM	2394	CG	TYR	B	402	46.049	70.567	42.610	1.00	21.79	B	C
	ATOM	2395	CD1	TYR	B	402	47.311	71.078	42.914	1.00	21.50	B	C
	ATOM	2396	CE1	TYR	B	402	48.161	71.554	41.913	1.00	21.86	B	C
	ATOM	2397	CD2	TYR	B	402	45.658	70.540	41.271	1.00	20.00	B	C
	ATOM	2398	CE2	TYR	B	402	46.501	71.013	40.263	1.00	20.93	B	C
30	ATOM	2399	CZ	TYR	B	402	47.749	71.520	40.592	1.00	21.54	B	C
	ATOM	2400	OH	TYR	B	402	48.583	72.013	39.614	1.00	19.51	B	O
	ATOM	2401	C	TYR	B	402	44.547	70.245	46.139	1.00	20.17	B	C
	ATOM	2402	O	TYR	B	402	44.116	71.318	46.554	1.00	18.77	B	O
	ATOM	2403	N	PHE	B	403	44.054	69.068	46.512	1.00	19.31	B	N
35	ATOM	2404	CA	PHE	B	403	42.969	68.941	47.473	1.00	18.59	B	C
	ATOM	2405	CB	PHE	B	403	42.532	67.478	47.575	1.00	17.58	B	C
	ATOM	2406	CG	PHE	B	403	41.262	67.277	48.341	1.00	16.37	B	C
	ATOM	2407	CD1	PHE	B	403	40.272	68.254	48.341	1.00	15.96	B	C
	ATOM	2408	CD2	PHE	B	403	41.056	66.111	49.068	1.00	16.31	B	C
40	ATOM	2409	CE1	PHE	B	403	39.092	68.072	49.056	1.00	16.40	B	C
	ATOM	2410	CE2	PHE	B	403	39.880	65.917	49.784	1.00	17.01	B	C
	ATOM	2411	CZ	PHE	B	403	38.895	66.902	49.779	1.00	16.41	B	C
	ATOM	2412	C	PHE	B	403	43.480	69.429	48.824	1.00	18.46	B	C
	ATOM	2413	O	PHE	B	403	42.787	70.134	49.554	1.00	19.46	B	O
45	ATOM	2414	N	ALA	B	404	44.712	69.059	49.141	1.00	17.78	B	N
	ATOM	2415	CA	ALA	B	404	45.332	69.462	50.388	1.00	18.84	B	C
	ATOM	2416	CB	ALA	B	404	46.725	68.873	50.482	1.00	16.08	B	C
	ATOM	2417	C	ALA	B	404	45.398	70.981	50.459	1.00	19.17	B	C
	ATOM	2418	O	ALA	B	404	44.973	71.590	51.440	1.00	20.06	B	O
50	ATOM	2419	N	THR	B	405	45.922	71.592	49.404	1.00	19.71	B	N
	ATOM	2420	CA	THR	B	405	46.057	73.042	49.349	1.00	19.18	B	C
	ATOM	2421	CB	THR	B	405	46.730	73.483	48.045	1.00	16.97	B	C
	ATOM	2422	OG1	THR	B	405	47.950	72.758	47.877	1.00	17.25	B	O
	ATOM	2423	CG2	THR	B	405	47.033	74.968	48.081	1.00	15.95	B	C
55	ATOM	2424	C	THR	B	405	44.743	73.800	49.489	1.00	20.57	B	C
	ATOM	2425	O	THR	B	405	44.694	74.823	50.169	1.00	21.80	B	O
	ATOM	2426	N	ILE	B	406	43.689	73.314	48.835	1.00	20.56	B	N
	ATOM	2427	CA	ILE	B	406	42.381	73.969	48.913	1.00	21.70	B	C
	ATOM	2428	CB	ILE	B	406	41.339	73.313	47.963	1.00	21.75	B	C
60	ATOM	2429	CG2	ILE	B	406	39.959	73.911	48.210	1.00	21.34	B	C
	ATOM	2430	CG1	ILE	B	406	41.733	73.544	46.502	1.00	23.10	B	C
	ATOM	2431	CD1	ILE	B	406	40.994	72.654	45.517	1.00	23.78	B	C
	ATOM	2432	C	ILE	B	406	41.857	73.860	50.342	1.00	21.98	B	C
	ATOM	2433	O	ILE	B	406	41.372	74.839	50.916	1.00	22.44	B	O
65	ATOM	2434	N	ILE	B	407	41.963	72.662	50.910	1.00	22.06	B	N
	ATOM	2435	CA	ILE	B	407	41.503	72.415	52.269	1.00	22.41	B	C
	ATOM	2436	CB	ILE	B	407	41.703	70.943	52.656	1.00	21.46	B	C
	ATOM	2437	CG2	ILE	B	407	41.982	70.821	54.142	1.00	20.71	B	C
	ATOM	2438	CG1	ILE	B	407	40.456	70.145	52.292	1.00	19.88	B	C

	ATOM	2439	CD1	ILE	B	407	40.714	68.670	52.199	1.00	22.16	B	C
	ATOM	2440	C	ILE	B	407	42.236	73.306	53.270	1.00	22.75	B	C
	ATOM	2441	O	ILE	B	407	41.625	73.855	54.189	1.00	23.96	B	O
	ATOM	2442	N	LYS	B	408	43.542	73.457	53.092	1.00	21.94	B	N
5	ATOM	2443	CA	LYS	B	408	44.313	74.294	54.001	1.00	21.96	B	C
	ATOM	2444	CB	LYS	B	408	45.809	74.131	53.740	1.00	21.69	B	C
	ATOM	2445	CG	LYS	B	408	46.399	72.909	54.425	1.00	23.63	B	C
	ATOM	2446	CD	LYS	B	408	47.279	72.111	53.487	1.00	24.44	B	C
10	ATOM	2447	CE	LYS	B	408	48.728	72.499	53.656	1.00	26.02	B	C
	ATOM	2448	NZ	LYS	B	408	48.967	73.112	54.992	1.00	27.54	B	N
	ATOM	2449	C	LYS	B	408	43.913	75.759	53.874	1.00	22.49	B	C
	ATOM	2450	O	LYS	B	408	43.985	76.520	54.846	1.00	22.42	B	O
	ATOM	2451	N	GLU	B	409	43.480	76.148	52.680	1.00	20.72	B	N
15	ATOM	2452	CA	GLU	B	409	43.058	77.521	52.452	1.00	21.44	B	C
	ATOM	2453	CB	GLU	B	409	42.946	77.794	50.951	1.00	21.82	B	C
	ATOM	2454	CG	GLU	B	409	44.287	77.862	50.249	1.00	22.72	B	C
	ATOM	2455	CD	GLU	B	409	44.167	78.231	48.782	1.00	24.03	B	C
	ATOM	2456	OE1	GLU	B	409	43.063	78.104	48.214	1.00	24.30	B	O
20	ATOM	2457	OE2	GLU	B	409	45.186	78.646	48.194	1.00	26.48	B	O
	ATOM	2458	C	GLU	B	409	41.713	77.759	53.135	1.00	20.29	B	C
	ATOM	2459	O	GLU	B	409	41.420	78.863	53.598	1.00	20.65	B	O
	ATOM	2460	N	VAL	B	410	40.893	76.719	53.185	1.00	20.00	B	N
	ATOM	2461	CA	VAL	B	410	39.593	76.815	53.836	1.00	19.74	B	C
25	ATOM	2462	CB	VAL	B	410	38.748	75.554	53.586	1.00	18.95	B	C
	ATOM	2463	CG1	VAL	B	410	37.513	75.585	54.465	1.00	18.08	B	C
	ATOM	2464	CG2	VAL	B	410	38.364	75.462	52.105	1.00	16.64	B	C
	ATOM	2465	C	VAL	B	410	39.826	76.956	55.344	1.00	21.00	B	C
	ATOM	2466	O	VAL	B	410	39.251	77.828	55.994	1.00	20.22	B	O
30	ATOM	2467	N	GLY	B	411	40.686	76.093	55.884	1.00	22.09	B	N
	ATOM	2468	CA	GLY	B	411	40.997	76.129	57.301	1.00	22.19	B	C
	ATOM	2469	C	GLY	B	411	41.505	77.488	57.739	1.00	23.53	B	C
	ATOM	2470	O	GLY	B	411	41.158	77.979	58.818	1.00	24.45	B	O
	ATOM	2471	N	ALA	B	412	42.329	78.108	56.903	1.00	22.69	B	N
35	ATOM	2472	CA	ALA	B	412	42.873	79.418	57.222	1.00	22.69	B	C
	ATOM	2473	CB	ALA	B	412	43.936	79.799	56.209	1.00	23.73	B	C
	ATOM	2474	C	ALA	B	412	41.777	80.481	57.258	1.00	23.16	B	C
	ATOM	2475	O	ALA	B	412	41.835	81.420	58.051	1.00	22.34	B	O
	ATOM	2476	N	ASP	B	413	40.782	80.345	56.390	1.00	23.57	B	N
40	ATOM	2477	CA	ASP	B	413	39.681	81.305	56.367	1.00	24.14	B	C
	ATOM	2478	CB	ASP	B	413	38.739	81.021	55.198	1.00	25.12	B	C
	ATOM	2479	CG	ASP	B	413	39.250	81.576	53.882	1.00	25.96	B	C
	ATOM	2480	OD1	ASP	B	413	38.798	81.081	52.829	1.00	29.07	B	O
	ATOM	2481	OD2	ASP	B	413	40.092	82.499	53.895	1.00	25.15	B	O
45	ATOM	2482	C	ASP	B	413	38.909	81.164	57.673	1.00	24.76	B	C
	ATOM	2483	O	ASP	B	413	38.402	82.142	58.224	1.00	24.74	B	O
	ATOM	2484	N	LEU	B	414	38.822	79.925	58.149	1.00	24.28	B	N
	ATOM	2485	CA	LEU	B	414	38.127	79.597	59.386	1.00	24.02	B	C
	ATOM	2486	CB	LEU	B	414	38.128	78.077	59.591	1.00	23.10	B	C
50	ATOM	2487	CG	LEU	B	414	36.853	77.264	59.333	1.00	22.65	B	C
	ATOM	2488	CD1	LEU	B	414	35.887	78.023	58.457	1.00	21.81	B	C
	ATOM	2489	CD2	LEU	B	414	37.230	75.949	58.689	1.00	22.75	B	C
	ATOM	2490	C	LEU	B	414	38.821	80.286	60.562	1.00	23.37	B	C
	ATOM	2491	O	LEU	B	414	38.178	80.974	61.358	1.00	23.47	B	O
55	ATOM	2492	N	VAL	B	415	40.137	80.097	60.655	1.00	22.96	B	N
	ATOM	2493	CA	VAL	B	415	40.938	80.695	61.716	1.00	22.49	B	C
	ATOM	2494	CB	VAL	B	415	42.431	80.333	61.554	1.00	21.23	B	C
	ATOM	2495	CG1	VAL	B	415	43.283	81.191	62.464	1.00	20.82	B	C
	ATOM	2496	CG2	VAL	B	415	42.650	78.871	61.879	1.00	18.64	B	C
60	ATOM	2497	C	VAL	B	415	40.796	82.217	61.741	1.00	24.86	B	C
	ATOM	2498	O	VAL	B	415	40.879	82.835	62.801	1.00	26.09	B	O
	ATOM	2499	N	ASP	B	416	40.579	82.820	60.575	1.00	26.97	B	N
	ATOM	2500	CA	ASP	B	416	40.420	84.269	60.475	1.00	27.82	B	C
	ATOM	2501	CB	ASP	B	416	40.482	84.716	59.017	1.00	33.17	B	C
65	ATOM	2502	CG	ASP	B	416	41.894	84.958	58.541	1.00	38.40	B	C
	ATOM	2503	OD1	ASP	B	416	42.073	85.156	57.319	1.00	43.64	B	O
	ATOM	2504	OD2	ASP	B	416	42.822	84.948	59.382	1.00	41.36	B	O
	ATOM	2505	C	ASP	B	416	39.096	84.728	61.060	1.00	26.18	B	C
	ATOM	2506	O	ASP	B	416	39.017	85.785	61.677	1.00	25.43	B	O

	ATOM	2507	N	ALA	B	417	38.052	83.935	60.848	1.00	25.55	B	N
	ATOM	2508	CA	ALA	B	417	36.724	84.262	61.358	1.00	25.08	B	C
	ATOM	2509	CB	ALA	B	417	35.672	83.501	60.575	1.00	26.21	B	C
5	ATOM	2510	C	ALA	B	417	36.639	83.911	62.840	1.00	23.14	B	C
	ATOM	2511	O	ALA	B	417	35.757	84.381	63.553	1.00	23.56	B	O
	ATOM	2512	N	LYS	B	418	37.550	83.048	63.275	1.00	23.12	B	N
	ATOM	2513	CA	LYS	B	418	37.663	82.626	64.667	1.00	22.22	B	C
	ATOM	2514	CB	LYS	B	418	37.913	83.855	65.550	1.00	21.96	B	C
10	ATOM	2515	CG	LYS	B	418	38.114	83.530	67.027	1.00	23.49	B	C
	ATOM	2516	CD	LYS	B	418	38.292	84.797	67.848	1.00	25.29	B	C
	ATOM	2517	CE	LYS	B	418	39.081	84.540	69.127	1.00	28.48	B	C
	ATOM	2518	NZ	LYS	B	418	38.853	85.615	70.142	1.00	30.54	B	N
	ATOM	2519	C	LYS	B	418	36.567	81.787	65.318	1.00	21.30	B	C
15	ATOM	2520	O	LYS	B	418	36.860	80.746	65.905	1.00	22.49	B	O
	ATOM	2521	N	TYR	B	419	35.315	82.224	65.220	1.00	20.30	B	N
	ATOM	2522	CA	TYR	B	419	34.227	81.527	65.900	1.00	20.41	B	C
	ATOM	2523	CB	TYR	B	419	33.174	82.559	66.307	1.00	20.28	B	C
	ATOM	2524	CG	TYR	B	419	33.792	83.675	67.106	1.00	21.53	B	C
20	ATOM	2525	CD1	TYR	B	419	34.239	83.456	68.406	1.00	23.70	B	C
	ATOM	2526	CE1	TYR	B	419	34.897	84.455	69.122	1.00	25.21	B	C
	ATOM	2527	CD2	TYR	B	419	34.011	84.925	66.541	1.00	22.73	B	C
	ATOM	2528	CE2	TYR	B	419	34.669	85.932	67.248	1.00	24.02	B	C
	ATOM	2529	CZ	TYR	B	419	35.111	85.686	68.536	1.00	25.20	B	C
25	ATOM	2530	OH	TYR	B	419	35.793	86.659	69.228	1.00	29.44	B	O
	ATOM	2531	C	TYR	B	419	33.560	80.311	65.272	1.00	20.03	B	C
	ATOM	2532	O	TYR	B	419	32.787	79.621	65.941	1.00	19.46	B	O
	ATOM	2533	N	GLN	B	420	33.850	80.031	64.005	1.00	18.67	B	N
	ATOM	2534	CA	GLN	B	420	33.262	78.867	63.350	1.00	18.21	B	C
30	ATOM	2535	CB	GLN	B	420	32.690	79.258	61.988	1.00	19.28	B	C
	ATOM	2536	CG	GLN	B	420	31.345	79.957	62.069	1.00	23.95	B	C
	ATOM	2537	CD	GLN	B	420	31.465	81.396	62.526	1.00	27.77	B	C
	ATOM	2538	OE1	GLN	B	420	30.927	81.780	63.570	1.00	29.82	B	O
	ATOM	2539	NE2	GLN	B	420	32.174	82.205	61.746	1.00	26.90	B	N
35	ATOM	2540	C	GLN	B	420	34.281	77.734	63.184	1.00	16.80	B	C
	ATOM	2541	O	GLN	B	420	35.442	77.970	62.846	1.00	16.27	B	O
	ATOM	2542	N	HIS	B	421	33.828	76.508	63.435	1.00	15.03	B	N
	ATOM	2543	CA	HIS	B	421	34.656	75.311	63.322	1.00	14.22	B	C
	ATOM	2544	CB	HIS	B	421	34.845	74.665	64.702	1.00	11.09	B	C
40	ATOM	2545	CG	HIS	B	421	35.586	75.530	65.675	1.00	10.94	B	C
	ATOM	2546	CD2	HIS	B	421	35.238	76.690	66.281	1.00	8.10	B	C
	ATOM	2547	ND1	HIS	B	421	36.870	75.249	66.094	1.00	10.64	B	N
	ATOM	2548	CE1	HIS	B	421	37.282	76.200	66.913	1.00	7.06	B	C
	ATOM	2549	NE2	HIS	B	421	36.310	77.085	67.043	1.00	8.55	B	N
45	ATOM	2550	C	HIS	B	421	33.946	74.334	62.391	1.00	15.06	B	C
	ATOM	2551	O	HIS	B	421	32.764	74.527	62.079	1.00	14.79	B	O
	ATOM	2552	N	ALA	B	422	34.651	73.286	61.956	1.00	15.35	B	N
	ATOM	2553	CA	ALA	B	422	34.059	72.297	61.060	1.00	13.36	B	C
	ATOM	2554	CB	ALA	B	422	34.297	72.707	59.609	1.00	13.79	B	C
50	ATOM	2555	C	ALA	B	422	34.606	70.894	61.295	1.00	13.52	B	C
	ATOM	2556	O	ALA	B	422	35.756	70.730	61.699	1.00	13.88	B	O
	ATOM	2557	N	GLU	B	423	33.775	69.884	61.029	1.00	13.01	B	N
	ATOM	2558	CA	GLU	B	423	34.163	68.479	61.191	1.00	13.65	B	C
	ATOM	2559	CB	GLU	B	423	33.202	67.777	62.157	1.00	13.11	B	C
55	ATOM	2560	CG	GLU	B	423	33.122	68.397	63.552	1.00	15.63	B	C
	ATOM	2561	CD	GLU	B	423	32.395	67.493	64.536	1.00	16.90	B	C
	ATOM	2562	OE1	GLU	B	423	33.063	66.663	65.197	1.00	17.68	B	O
	ATOM	2563	OE2	GLU	B	423	31.153	67.606	64.638	1.00	19.35	B	O
	ATOM	2564	C	GLU	B	423	34.148	67.748	59.833	1.00	13.68	B	C
60	ATOM	2565	O	GLU	B	423	33.324	66.851	59.595	1.00	11.74	B	O
	ATOM	2566	N	PRO	B	424	35.066	68.124	58.927	1.00	14.55	B	N
	ATOM	2567	CD	PRO	B	424	36.080	69.182	59.093	1.00	12.87	B	C
	ATOM	2568	CA	PRO	B	424	35.131	67.495	57.603	1.00	14.87	B	C
	ATOM	2569	CB	PRO	B	424	36.240	68.268	56.889	1.00	14.60	B	C
65	ATOM	2570	CG	PRO	B	424	37.010	68.943	57.966	1.00	15.32	B	C
	ATOM	2571	C	PRO	B	424	35.368	65.990	57.586	1.00	16.05	B	C
	ATOM	2572	O	PRO	B	424	36.217	65.470	58.302	1.00	16.95	B	O
	ATOM	2573	N	ARG	B	425	34.606	65.300	56.743	1.00	16.81	B	N
	ATOM	2574	CA	ARG	B	425	34.701	63.852	56.598	1.00	16.74	B	C

	ATOM	2575	CB	ARG	B	425	33.285	63.260	56.435	1.00	16.29	B	C
	ATOM	2576	CG	ARG	B	425	32.787	62.468	57.649	1.00	17.07	B	C
	ATOM	2577	CD	ARG	B	425	31.452	62.970	58.212	1.00	17.37	B	C
	ATOM	2578	NE	ARG	B	425	31.595	64.230	58.931	1.00	18.24	B	N
5	ATOM	2579	CZ	ARG	B	425	30.782	64.667	59.894	1.00	16.41	B	C
	ATOM	2580	NH1	ARG	B	425	29.730	63.956	60.293	1.00	10.63	B	N
	ATOM	2581	NH2	ARG	B	425	31.019	65.846	60.451	1.00	15.95	B	N
	ATOM	2582	C	ARG	B	425	35.582	63.465	55.398	1.00	17.33	B	C
	ATOM	2583	O	ARG	B	425	35.382	63.961	54.288	1.00	16.89	B	O
10	ATOM	2584	N	LEU	B	426	36.567	62.599	55.642	1.00	17.13	B	N
	ATOM	2585	CA	LEU	B	426	37.482	62.111	54.605	1.00	16.46	B	C
	ATOM	2586	CB	LEU	B	426	38.932	62.106	55.103	1.00	14.89	B	C
	ATOM	2587	CG	LEU	B	426	39.635	63.446	55.320	1.00	15.63	B	C
	ATOM	2588	CD1	LEU	B	426	40.964	63.235	56.048	1.00	13.46	B	C
15	ATOM	2589	CD2	LEU	B	426	39.859	64.118	53.975	1.00	13.65	B	C
	ATOM	2590	C	LEU	B	426	37.055	60.683	54.287	1.00	17.44	B	C
	ATOM	2591	O	LEU	B	426	36.466	60.009	55.136	1.00	17.34	B	O
	ATOM	2592	N	SER	B	427	37.366	60.213	53.079	1.00	16.36	B	N
	ATOM	2593	CA	SER	B	427	36.955	58.872	52.664	1.00	17.94	B	C
20	ATOM	2594	CB	SER	B	427	36.421	58.902	51.226	1.00	17.38	B	C
	ATOM	2595	OG	SER	B	427	35.343	59.804	51.091	1.00	18.21	B	O
	ATOM	2596	C	SER	B	427	37.969	57.743	52.745	1.00	17.81	B	C
	ATOM	2597	O	SER	B	427	39.133	57.906	52.403	1.00	17.94	B	O
	ATOM	2598	N	ILE	B	428	37.483	56.593	53.201	1.00	18.88	B	N
25	ATOM	2599	CA	ILE	B	428	38.250	55.355	53.291	1.00	19.33	B	C
	ATOM	2600	CB	ILE	B	428	38.613	54.987	54.752	1.00	17.61	B	C
	ATOM	2601	CG2	ILE	B	428	38.941	53.501	54.852	1.00	15.11	B	C
	ATOM	2602	CG1	ILE	B	428	39.813	55.823	55.211	1.00	14.66	B	C
	ATOM	2603	CD1	ILE	B	428	41.144	55.444	54.571	1.00	14.51	B	C
30	ATOM	2604	C	ILE	B	428	37.205	54.390	52.743	1.00	20.43	B	C
	ATOM	2605	O	ILE	B	428	36.132	54.249	53.331	1.00	20.96	B	O
	ATOM	2606	N	TYR	B	429	37.504	53.743	51.616	1.00	20.77	B	N
	ATOM	2607	CA	TYR	B	429	36.538	52.854	50.961	1.00	21.03	B	C
	ATOM	2608	CB	TYR	B	429	36.662	52.985	49.442	1.00	20.20	B	C
35	ATOM	2609	CG	TYR	B	429	36.660	54.408	48.946	1.00	18.35	B	C
	ATOM	2610	CD1	TYR	B	429	37.837	55.143	48.885	1.00	19.89	B	C
	ATOM	2611	CE1	TYR	B	429	37.836	56.462	48.439	1.00	18.73	B	C
	ATOM	2612	CD2	TYR	B	429	35.473	55.026	48.548	1.00	18.20	B	C
	ATOM	2613	CE2	TYR	B	429	35.461	56.339	48.103	1.00	16.66	B	C
40	ATOM	2614	CZ	TYR	B	429	36.647	57.048	48.052	1.00	19.08	B	C
	ATOM	2615	OH	TYR	B	429	36.650	58.347	47.604	1.00	24.42	B	O
	ATOM	2616	C	TYR	B	429	36.539	51.376	51.290	1.00	22.34	B	C
	ATOM	2617	O	TYR	B	429	35.524	50.709	51.099	1.00	23.15	B	O
	ATOM	2618	N	GLY	B	430	37.661	50.852	51.764	1.00	23.60	B	N
45	ATOM	2619	CA	GLY	B	430	37.714	49.430	52.050	1.00	24.26	B	C
	ATOM	2620	C	GLY	B	430	37.914	48.681	50.742	1.00	24.88	B	C
	ATOM	2621	O	GLY	B	430	37.615	47.494	50.632	1.00	24.20	B	O
	ATOM	2622	N	ARG	B	431	38.415	49.398	49.740	1.00	26.40	B	N
	ATOM	2623	CA	ARG	B	431	38.676	48.830	48.423	1.00	27.31	B	C
50	ATOM	2624	CB	ARG	B	431	38.599	49.926	47.359	1.00	29.34	B	C
	ATOM	2625	CG	ARG	B	431	38.751	49.435	45.923	1.00	32.52	B	C
	ATOM	2626	CD	ARG	B	431	39.175	50.573	45.001	1.00	33.15	B	C
	ATOM	2627	NE	ARG	B	431	40.406	51.208	45.463	1.00	35.64	B	N
	ATOM	2628	CZ	ARG	B	431	40.489	52.460	45.903	1.00	36.22	B	C
55	ATOM	2629	NH1	ARG	B	431	39.407	53.229	45.946	1.00	37.36	B	N
	ATOM	2630	NH2	ARG	B	431	41.658	52.945	46.299	1.00	35.20	B	N
	ATOM	2631	C	ARG	B	431	40.069	48.224	48.441	1.00	26.78	B	C
	ATOM	2632	O	ARG	B	431	40.309	47.185	47.840	1.00	26.89	B	O
	ATOM	2633	N	SER	B	432	40.983	48.881	49.146	1.00	27.85	B	N
60	ATOM	2634	CA	SER	B	432	42.358	48.414	49.259	1.00	29.57	B	C
	ATOM	2635	CB	SER	B	432	43.251	49.159	48.270	1.00	28.82	B	C
	ATOM	2636	OG	SER	B	432	44.613	48.951	48.582	1.00	29.27	B	O
	ATOM	2637	C	SER	B	432	42.876	48.628	50.682	1.00	31.22	B	C
	ATOM	2638	O	SER	B	432	42.516	49.601	51.344	1.00	31.01	B	O
65	ATOM	2639	N	PRO	B	433	43.745	47.723	51.166	1.00	32.15	B	N
	ATOM	2640	CD	PRO	B	433	44.258	46.545	50.442	1.00	32.99	B	C
	ATOM	2641	CA	PRO	B	433	44.306	47.820	52.521	1.00	31.74	B	C
	ATOM	2642	CB	PRO	B	433	44.907	46.438	52.759	1.00	31.41	B	C

	ATOM	2643	CG	PRO	B	433	45.282	45.966	51.395	1.00	32.43	B	C
	ATOM	2644	C	PRO	B	433	45.338	48.931	52.709	1.00	31.87	B	C
	ATOM	2645	O	PRO	B	433	45.646	49.313	53.838	1.00	31.86	B	O
5	ATOM	2646	N	ASP	B	434	45.870	49.453	51.608	1.00	31.30	B	N
	ATOM	2647	CA	ASP	B	434	46.868	50.512	51.696	1.00	30.59	B	C
	ATOM	2648	CB	ASP	B	434	47.874	50.378	50.542	1.00	35.98	B	C
	ATOM	2649	CG	ASP	B	434	47.344	50.937	49.226	1.00	41.62	B	C
	ATOM	2650	OD1	ASP	B	434	46.107	50.968	49.030	1.00	43.98	B	O
10	ATOM	2651	OD2	ASP	B	434	48.172	51.347	48.380	1.00	44.03	B	O
	ATOM	2652	C	ASP	B	434	46.266	51.921	51.717	1.00	27.95	B	C
	ATOM	2653	O	ASP	B	434	46.999	52.913	51.717	1.00	26.50	B	O
	ATOM	2654	N	GLU	B	435	44.938	52.008	51.747	1.00	24.19	B	N
	ATOM	2655	CA	GLU	B	435	44.257	53.303	51.763	1.00	23.19	B	C
15	ATOM	2656	CB	GLU	B	435	42.747	53.093	51.711	1.00	22.97	B	C
	ATOM	2657	CG	GLU	B	435	42.256	52.521	50.397	1.00	22.73	B	C
	ATOM	2658	CD	GLU	B	435	40.751	52.586	50.259	1.00	22.27	B	C
	ATOM	2659	OE1	GLU	B	435	40.148	51.550	49.915	1.00	22.18	B	O
	ATOM	2660	OE2	GLU	B	435	40.169	53.670	50.490	1.00	24.80	B	O
20	ATOM	2661	C	GLU	B	435	44.615	54.139	52.993	1.00	23.05	B	C
	ATOM	2662	O	GLU	B	435	44.831	55.350	52.905	1.00	22.60	B	O
	ATOM	2663	N	TRP	B	436	44.674	53.483	54.147	1.00	23.70	B	N
	ATOM	2664	CA	TRP	B	436	45.008	54.159	55.395	1.00	21.63	B	C
	ATOM	2665	CB	TRP	B	436	44.863	53.179	56.567	1.00	19.94	B	C
25	ATOM	2666	CG	TRP	B	436	43.436	53.009	57.038	1.00	17.20	B	C
	ATOM	2667	CD2	TRP	B	436	42.673	53.941	57.819	1.00	14.91	B	C
	ATOM	2668	CE2	TRP	B	436	41.406	53.355	58.052	1.00	15.79	B	C
	ATOM	2669	CE3	TRP	B	436	42.938	55.210	58.347	1.00	14.90	B	C
	ATOM	2670	CD1	TRP	B	436	42.621	51.928	56.830	1.00	16.02	B	C
30	ATOM	2671	NE1	TRP	B	436	41.399	52.128	57.437	1.00	14.07	B	N
	ATOM	2672	CZ2	TRP	B	436	40.408	53.999	58.791	1.00	14.97	B	C
	ATOM	2673	CZ3	TRP	B	436	41.947	55.848	59.082	1.00	14.90	B	C
	ATOM	2674	CH2	TRP	B	436	40.698	55.239	59.297	1.00	14.68	B	C
	ATOM	2675	C	TRP	B	436	46.434	54.689	55.317	1.00	21.14	B	C
35	ATOM	2676	O	TRP	B	436	46.715	55.828	55.697	1.00	21.25	B	O
	ATOM	2677	N	SER	B	437	47.336	53.859	54.809	1.00	22.17	B	N
	ATOM	2678	CA	SER	B	437	48.728	54.259	54.675	1.00	23.73	B	C
	ATOM	2679	CB	SER	B	437	49.556	53.117	54.093	1.00	23.90	B	C
	ATOM	2680	OG	SER	B	437	50.781	53.620	53.587	1.00	27.14	B	O
40	ATOM	2681	C	SER	B	437	48.862	55.477	53.767	1.00	23.51	B	C
	ATOM	2682	O	SER	B	437	49.644	56.385	54.040	1.00	24.40	B	O
	ATOM	2683	N	LYS	B	438	48.099	55.485	52.680	1.00	22.68	B	N
	ATOM	2684	CA	LYS	B	438	48.138	56.585	51.727	1.00	22.91	B	C
	ATOM	2685	CB	LYS	B	438	47.396	56.194	50.445	1.00	24.90	B	C
45	ATOM	2686	CG	LYS	B	438	48.042	55.066	49.657	1.00	25.77	B	C
	ATOM	2687	CD	LYS	B	438	48.086	55.406	48.182	1.00	28.06	B	C
	ATOM	2688	CE	LYS	B	438	47.783	54.191	47.315	1.00	31.11	B	C
	ATOM	2689	NZ	LYS	B	438	47.929	54.503	45.868	1.00	31.34	B	N
	ATOM	2690	C	LYS	B	438	47.525	57.861	52.288	1.00	21.38	B	C
50	ATOM	2691	O	LYS	B	438	48.093	58.946	52.148	1.00	22.43	B	O
	ATOM	2692	N	LEU	B	439	46.362	57.728	52.921	1.00	21.03	B	N
	ATOM	2693	CA	LEU	B	439	45.662	58.878	53.487	1.00	18.55	B	C
	ATOM	2694	CB	LEU	B	439	44.268	58.467	53.969	1.00	16.98	B	C
	ATOM	2695	CG	LEU	B	439	43.330	59.588	54.428	1.00	16.26	B	C
55	ATOM	2696	CD1	LEU	B	439	43.324	60.738	53.422	1.00	15.73	B	C
	ATOM	2697	CD2	LEU	B	439	41.927	59.020	54.599	1.00	15.96	B	C
	ATOM	2698	C	LEU	B	439	46.434	59.514	54.629	1.00	19.28	B	C
	ATOM	2699	O	LEU	B	439	46.541	60.738	54.698	1.00	20.24	B	O
60	ATOM	2700	N	SER	B	440	46.980	58.690	55.520	1.00	18.49	B	N
	ATOM	2701	CA	SER	B	440	47.734	59.210	56.651	1.00	19.13	B	C
	ATOM	2702	CB	SER	B	440	48.180	58.074	57.582	1.00	20.22	B	C
	ATOM	2703	OG	SER	B	440	49.063	57.175	56.941	1.00	22.56	B	O
	ATOM	2704	C	SER	B	440	48.934	60.003	56.166	1.00	19.57	B	C
	ATOM	2705	O	SER	B	440	49.248	61.055	56.722	1.00	19.24	B	O
65	ATOM	2706	N	SER	B	441	49.596	59.505	55.123	1.00	21.52	B	N
	ATOM	2707	CA	SER	B	441	50.759	60.188	54.545	1.00	23.23	B	C
	ATOM	2708	CB	SER	B	441	51.429	59.304	53.487	1.00	22.86	B	C
	ATOM	2709	OG	SER	B	441	51.844	58.067	54.037	1.00	24.49	B	O
	ATOM	2710	C	SER	B	441	50.328	61.510	53.904	1.00	21.79	B	C

	ATOM	2711	O	SER	B	441	51.033	62.517	53.992	1.00	21.13	B	O
	ATOM	2712	N	TRP	B	442	49.167	61.497	53.253	1.00	22.74	B	N
	ATOM	2713	CA	TRP	B	442	48.638	62.698	52.613	1.00	21.49	B	C
	ATOM	2714	CB	TRP	B	442	47.320	62.374	51.893	1.00	20.76	B	C
5	ATOM	2715	CG	TRP	B	442	46.577	63.579	51.368	1.00	22.46	B	C
	ATOM	2716	CD2	TRP	B	442	45.468	64.249	51.991	1.00	24.54	B	C
	ATOM	2717	CE2	TRP	B	442	45.098	65.324	51.144	1.00	23.35	B	C
	ATOM	2718	CE3	TRP	B	442	44.751	64.046	53.182	1.00	23.33	B	C
10	ATOM	2719	CD1	TRP	B	442	46.825	64.256	50.205	1.00	21.79	B	C
	ATOM	2720	NE1	TRP	B	442	45.941	65.304	50.065	1.00	22.48	B	N
	ATOM	2721	CZ2	TRP	B	442	44.043	66.196	51.450	1.00	23.79	B	C
	ATOM	2722	CZ3	TRP	B	442	43.701	64.919	53.486	1.00	24.76	B	C
	ATOM	2723	CH2	TRP	B	442	43.359	65.978	52.620	1.00	23.62	B	C
	ATOM	2724	C	TRP	B	442	48.407	63.759	53.687	1.00	22.43	B	C
15	ATOM	2725	O	TRP	B	442	48.820	64.912	53.547	1.00	21.98	B	O
	ATOM	2726	N	PHE	B	443	47.756	63.349	54.768	1.00	22.75	B	N
	ATOM	2727	CA	PHE	B	443	47.442	64.243	55.878	1.00	23.93	B	C
	ATOM	2728	CB	PHE	B	443	46.562	63.495	56.891	1.00	24.14	B	C
	ATOM	2729	CG	PHE	B	443	45.894	64.387	57.896	1.00	23.97	B	C
20	ATOM	2730	CD1	PHE	B	443	46.549	64.747	59.069	1.00	24.17	B	C
	ATOM	2731	CD2	PHE	B	443	44.605	64.858	57.678	1.00	24.04	B	C
	ATOM	2732	CE1	PHE	B	443	45.926	65.566	60.013	1.00	23.64	B	C
	ATOM	2733	CE2	PHE	B	443	43.977	65.675	58.616	1.00	23.82	B	C
	ATOM	2734	CZ	PHE	B	443	44.639	66.028	59.783	1.00	23.12	B	C
25	ATOM	2735	C	PHE	B	443	48.686	64.794	56.580	1.00	23.89	B	C
	ATOM	2736	O	PHE	B	443	48.813	66.002	56.780	1.00	23.61	B	O
	ATOM	2737	N	VAL	B	444	49.597	63.899	56.953	1.00	24.52	B	N
	ATOM	2738	CA	VAL	B	444	50.819	64.282	57.653	1.00	24.59	B	C
	ATOM	2739	CB	VAL	B	444	51.554	63.042	58.185	1.00	24.52	B	C
30	ATOM	2740	CG1	VAL	B	444	52.809	63.458	58.914	1.00	25.78	B	C
	ATOM	2741	CG2	VAL	B	444	50.642	62.257	59.115	1.00	26.66	B	C
	ATOM	2742	C	VAL	B	444	51.789	65.086	56.796	1.00	25.99	B	C
	ATOM	2743	O	VAL	B	444	52.201	66.182	57.172	1.00	25.17	B	O
	ATOM	2744	N	ARG	B	445	52.151	64.540	55.642	1.00	27.19	B	N
35	ATOM	2745	CA	ARG	B	445	53.081	65.211	54.749	1.00	29.18	B	C
	ATOM	2746	CB	ARG	B	445	53.359	64.326	53.533	1.00	31.80	B	C
	ATOM	2747	CG	ARG	B	445	54.512	63.356	53.745	1.00	37.23	B	C
	ATOM	2748	CD	ARG	B	445	54.234	62.002	53.118	1.00	40.93	B	C
	ATOM	2749	NE	ARG	B	445	55.079	60.953	53.684	1.00	44.06	B	N
40	ATOM	2750	CZ	ARG	B	445	55.585	59.944	52.980	1.00	47.25	B	C
	ATOM	2751	NH1	ARG	B	445	55.332	59.845	51.680	1.00	46.96	B	N
	ATOM	2752	NH2	ARG	B	445	56.347	59.034	53.574	1.00	46.70	B	N
	ATOM	2753	C	ARG	B	445	52.617	66.594	54.293	1.00	28.76	B	C
	ATOM	2754	O	ARG	B	445	53.437	67.482	54.064	1.00	29.32	B	O
45	ATOM	2755	N	ASN	B	446	51.311	66.789	54.163	1.00	27.42	B	N
	ATOM	2756	CA	ASN	B	446	50.804	68.084	53.723	1.00	26.20	B	C
	ATOM	2757	CB	ASN	B	446	49.531	67.905	52.895	1.00	25.35	B	C
	ATOM	2758	CG	ASN	B	446	49.823	67.484	51.468	1.00	24.44	B	C
	ATOM	2759	OD1	ASN	B	446	49.643	66.324	51.104	1.00	24.52	B	O
50	ATOM	2760	ND2	ASN	B	446	50.280	68.427	50.654	1.00	24.56	B	N
	ATOM	2761	C	ASN	B	446	50.530	68.992	54.910	1.00	27.33	B	C
	ATOM	2762	O	ASN	B	446	50.058	70.120	54.745	1.00	25.80	B	O
	ATOM	2763	N	ARG	B	447	50.839	68.490	56.104	1.00	27.97	B	N
	ATOM	2764	CA	ARG	B	447	50.632	69.235	57.343	1.00	29.47	B	C
55	ATOM	2765	CB	ARG	B	447	51.651	70.375	57.469	1.00	30.74	B	C
	ATOM	2766	CG	ARG	B	447	53.044	70.028	56.976	1.00	35.57	B	C
	ATOM	2767	CD	ARG	B	447	53.955	69.581	58.114	1.00	39.55	B	C
	ATOM	2768	NE	ARG	B	447	54.106	70.623	59.127	1.00	44.32	B	N
	ATOM	2769	CZ	ARG	B	447	54.462	70.397	60.388	1.00	44.53	B	C
60	ATOM	2770	NH1	ARG	B	447	54.707	69.161	60.801	1.00	45.13	B	N
	ATOM	2771	NH2	ARG	B	447	54.568	71.407	61.238	1.00	47.17	B	N
	ATOM	2772	C	ARG	B	447	49.226	69.806	57.383	1.00	29.42	B	C
	ATOM	2773	O	ARG	B	447	49.039	71.008	57.572	1.00	28.82	B	O
	ATOM	2774	N	ILE	B	448	48.237	68.942	57.192	1.00	28.94	B	N
65	ATOM	2775	CA	ILE	B	448	46.854	69.379	57.216	1.00	29.89	B	C
	ATOM	2776	CB	ILE	B	448	45.955	68.426	56.398	1.00	29.92	B	C
	ATOM	2777	CG2	ILE	B	448	44.495	68.670	56.716	1.00	30.11	B	C
	ATOM	2778	CG1	ILE	B	448	46.190	68.648	54.906	1.00	29.75	B	C

	ATOM	2779	CD1	ILE	B	448	46.078	67.390	54.113	1.00	30.34	B	C
	ATOM	2780	C	ILE	B	448	46.401	69.403	58.669	1.00	30.36	B	C
	ATOM	2781	O	ILE	B	448	46.125	68.370	59.266	1.00	33.76	B	O
5	ATOM	2782	N	TYR	B	449	46.359	70.591	59.246	1.00	29.97	B	N
	ATOM	2783	CA	TYR	B	449	45.940	70.749	60.628	1.00	28.50	B	C
	ATOM	2784	CB	TYR	B	449	47.074	70.383	61.598	1.00	28.91	B	C
	ATOM	2785	CG	TYR	B	449	46.827	70.925	62.987	1.00	30.79	B	C
	ATOM	2786	CD1	TYR	B	449	46.065	70.210	63.908	1.00	31.76	B	C
10	ATOM	2787	CE1	TYR	B	449	45.722	70.763	65.143	1.00	32.60	B	C
	ATOM	2788	CD2	TYR	B	449	47.254	72.205	63.341	1.00	32.01	B	C
	ATOM	2789	CE2	TYR	B	449	46.916	72.765	64.569	1.00	32.81	B	C
	ATOM	2790	CZ	TYR	B	449	46.147	72.043	65.462	1.00	33.13	B	C
	ATOM	2791	OH	TYR	B	449	45.784	72.616	66.660	1.00	36.52	B	O
15	ATOM	2792	C	TYR	B	449	45.540	72.201	60.839	1.00	27.24	B	C
	ATOM	2793	O	TYR	B	449	46.335	73.111	60.617	1.00	28.50	B	O
	ATOM	2794	N	SER	B	450	44.299	72.414	61.253	1.00	25.17	B	N
	ATOM	2795	CA	SER	B	450	43.803	73.758	61.499	1.00	24.38	B	C
	ATOM	2796	CB	SER	B	450	42.696	74.121	60.504	1.00	22.91	B	C
20	ATOM	2797	OG	SER	B	450	41.953	75.258	60.935	1.00	23.17	B	O
	ATOM	2798	C	SER	B	450	43.249	73.758	62.910	1.00	24.79	B	C
	ATOM	2799	O	SER	B	450	42.707	72.753	63.379	1.00	25.40	B	O
	ATOM	2800	N	SER	B	451	43.397	74.877	63.599	1.00	23.77	B	N
	ATOM	2801	CA	SER	B	451	42.889	74.960	64.953	1.00	24.88	B	C
25	ATOM	2802	CB	SER	B	451	43.458	76.189	65.643	1.00	23.65	B	C
	ATOM	2803	OG	SER	B	451	42.949	77.347	65.023	1.00	26.07	B	O
	ATOM	2804	C	SER	B	451	41.364	75.028	64.936	1.00	23.54	B	C
	ATOM	2805	O	SER	B	451	40.726	74.918	65.984	1.00	25.53	B	O
	ATOM	2806	N	ASN	B	452	40.780	75.197	63.748	1.00	20.94	B	N
30	ATOM	2807	CA	ASN	B	452	39.326	75.271	63.617	1.00	17.97	B	C
	ATOM	2808	CB	ASN	B	452	38.913	76.580	62.953	1.00	16.76	B	C
	ATOM	2809	CG	ASN	B	452	38.962	77.750	63.904	1.00	17.13	B	C
	ATOM	2810	OD1	ASN	B	452	40.009	78.046	64.471	1.00	19.80	B	O
	ATOM	2811	ND2	ASN	B	452	37.830	78.429	64.084	1.00	14.42	B	N
35	ATOM	2812	C	ASN	B	452	38.727	74.108	62.836	1.00	17.03	B	C
	ATOM	2813	O	ASN	B	452	37.627	74.227	62.301	1.00	17.16	B	O
	ATOM	2814	N	MET	B	453	39.446	72.988	62.786	1.00	16.23	B	N
	ATOM	2815	CA	MET	B	453	38.985	71.798	62.081	1.00	16.41	B	C
	ATOM	2816	CB	MET	B	453	39.596	71.749	60.678	1.00	17.85	B	C
40	ATOM	2817	CG	MET	B	453	38.867	72.542	59.629	1.00	18.78	B	C
	ATOM	2818	SD	MET	B	453	39.627	72.340	58.000	1.00	24.82	B	S
	ATOM	2819	CE	MET	B	453	38.336	72.987	56.971	1.00	21.21	B	C
	ATOM	2820	C	MET	B	453	39.362	70.494	62.793	1.00	16.46	B	C
	ATOM	2821	O	MET	B	453	40.495	70.339	63.226	1.00	18.01	B	O
45	ATOM	2822	N	THR	B	454	38.409	69.569	62.919	1.00	15.86	B	N
	ATOM	2823	CA	THR	B	454	38.679	68.254	63.505	1.00	14.88	B	C
	ATOM	2824	CB	THR	B	454	37.916	68.000	64.848	1.00	14.36	B	C
	ATOM	2825	OG1	THR	B	454	36.522	68.287	64.700	1.00	16.82	B	O
	ATOM	2826	CG2	THR	B	454	38.496	68.878	65.950	1.00	12.42	B	C
50	ATOM	2827	C	THR	B	454	38.233	67.280	62.411	1.00	15.39	B	C
	ATOM	2828	O	THR	B	454	37.375	67.621	61.596	1.00	14.76	B	O
	ATOM	2829	N	TRP	B	455	38.799	66.078	62.387	1.00	15.72	B	N
	ATOM	2830	CA	TRP	B	455	38.499	65.134	61.317	1.00	16.80	B	C
	ATOM	2831	CB	TRP	B	455	39.801	64.853	60.547	1.00	16.27	B	C
55	ATOM	2832	CG	TRP	B	455	40.429	66.110	60.025	1.00	15.08	B	C
	ATOM	2833	CD2	TRP	B	455	40.228	66.691	58.731	1.00	16.36	B	C
	ATOM	2834	CE2	TRP	B	455	40.927	67.919	58.711	1.00	16.92	B	C
	ATOM	2835	CE3	TRP	B	455	39.523	66.295	57.587	1.00	16.61	B	C
	ATOM	2836	CD1	TRP	B	455	41.223	66.978	60.713	1.00	14.32	B	C
60	ATOM	2837	NE1	TRP	B	455	41.525	68.071	59.935	1.00	16.15	B	N
	ATOM	2838	CZ2	TRP	B	455	40.940	68.757	57.590	1.00	17.55	B	C
	ATOM	2839	CZ3	TRP	B	455	39.538	67.128	56.471	1.00	18.30	B	C
	ATOM	2840	CH2	TRP	B	455	40.243	68.345	56.484	1.00	15.82	B	C
	ATOM	2841	C	TRP	B	455	37.817	63.811	61.643	1.00	17.48	B	C
65	ATOM	2842	O	TRP	B	455	38.000	63.243	62.715	1.00	17.12	B	O
	ATOM	2843	N	MET	B	456	37.037	63.328	60.680	1.00	16.71	B	N
	ATOM	2844	CA	MET	B	456	36.328	62.060	60.793	1.00	17.12	B	C
	ATOM	2845	CB	MET	B	456	34.832	62.285	60.985	1.00	17.05	B	C
	ATOM	2846	CG	MET	B	456	34.467	63.114	62.192	1.00	15.52	B	C

5	ATOM	2847	SD	MET	B	456	32.694	63.310	62.326	1.00	17.70	B	S
	ATOM	2848	CE	MET	B	456	32.114	61.623	62.044	1.00	16.18	B	C
	ATOM	2849	C	MET	B	456	36.546	61.300	59.493	1.00	18.52	B	C
	ATOM	2850	O	MET	B	456	37.013	61.872	58.507	1.00	18.13	B	O
	ATOM	2851	N	ILE	B	457	36.209	60.014	59.493	1.00	18.95	B	N
	ATOM	2852	CA	ILE	B	457	36.363	59.189	58.304	1.00	17.90	B	C
	ATOM	2853	CB	ILE	B	457	37.386	58.039	58.542	1.00	18.75	B	C
10	ATOM	2854	CG2	ILE	B	457	37.087	56.853	57.632	1.00	16.60	B	C
	ATOM	2855	CG1	ILE	B	457	38.795	58.535	58.230	1.00	19.66	B	C
	ATOM	2856	CD1	ILE	B	457	39.707	58.483	59.391	1.00	22.78	B	C
	ATOM	2857	C	ILE	B	457	35.009	58.607	57.915	1.00	17.61	B	C
	ATOM	2858	O	ILE	B	457	34.274	58.096	58.755	1.00	16.26	B	O
15	ATOM	2859	N	GLN	B	458	34.666	58.707	56.636	1.00	17.18	B	N
	ATOM	2860	CA	GLN	B	458	33.402	58.168	56.168	1.00	15.31	B	C
	ATOM	2861	CB	GLN	B	458	32.601	59.237	55.429	1.00	16.13	B	C
	ATOM	2862	CG	GLN	B	458	33.281	59.762	54.184	1.00	19.80	B	C
	ATOM	2863	CD	GLN	B	458	32.431	60.764	53.423	1.00	22.74	B	C
20	ATOM	2864	OE1	GLN	B	458	31.511	61.365	53.972	1.00	24.14	B	O
	ATOM	2865	NE2	GLN	B	458	32.745	60.950	52.147	1.00	22.04	B	N
	ATOM	2866	C	GLN	B	458	33.692	57.018	55.237	1.00	15.32	B	C
	ATOM	2867	O	GLN	B	458	34.626	57.077	54.442	1.00	17.39	B	O
	ATOM	2868	N	VAL	B	459	32.922	55.950	55.362	1.00	14.32	B	N
25	ATOM	2869	CA	VAL	B	459	33.105	54.833	54.478	1.00	16.03	B	C
	ATOM	2870	CB	VAL	B	459	33.675	53.569	55.220	1.00	16.56	B	C
	ATOM	2871	CG1	VAL	B	459	34.125	53.942	56.611	1.00	19.15	B	C
	ATOM	2872	CG2	VAL	B	459	32.683	52.439	55.236	1.00	16.95	B	C
	ATOM	2873	C	VAL	B	459	31.774	54.574	53.777	1.00	16.69	B	C
30	ATOM	2874	O	VAL	B	459	30.786	54.173	54.390	1.00	16.67	B	O
	ATOM	2875	N	PRO	B	460	31.723	54.885	52.470	1.00	16.96	B	N
	ATOM	2876	CD	PRO	B	460	32.834	55.489	51.704	1.00	17.59	B	C
	ATOM	2877	CA	PRO	B	460	30.529	54.700	51.642	1.00	15.78	B	C
	ATOM	2878	CB	PRO	B	460	30.960	55.227	50.270	1.00	16.72	B	C
35	ATOM	2879	CG	PRO	B	460	32.131	56.143	50.558	1.00	15.69	B	C
	ATOM	2880	C	PRO	B	460	30.090	53.237	51.600	1.00	15.32	B	C
	ATOM	2881	O	PRO	B	460	30.922	52.330	51.590	1.00	15.74	B	O
	ATOM	2882	N	ARG	B	461	28.784	53.007	51.596	1.00	15.03	B	N
	ATOM	2883	CA	ARG	B	461	28.268	51.648	51.554	1.00	17.54	B	C
40	ATOM	2884	CB	ARG	B	461	26.908	51.585	52.251	1.00	13.41	B	C
	ATOM	2885	CG	ARG	B	461	26.887	52.277	53.606	1.00	13.36	B	C
	ATOM	2886	CD	ARG	B	461	25.628	51.952	54.399	1.00	12.91	B	C
	ATOM	2887	NE	ARG	B	461	24.466	52.732	53.967	1.00	14.91	B	N
	ATOM	2888	CZ	ARG	B	461	24.258	54.014	54.262	1.00	13.76	B	C
45	ATOM	2889	NH1	ARG	B	461	25.131	54.691	54.992	1.00	15.59	B	N
	ATOM	2890	NH2	ARG	B	461	23.172	54.625	53.817	1.00	15.24	B	N
	ATOM	2891	C	ARG	B	461	28.155	51.185	50.098	1.00	18.95	B	C
	ATOM	2892	O	ARG	B	461	27.055	50.980	49.577	1.00	20.79	B	O
	ATOM	2893	N	ILE	B	462	29.303	51.020	49.445	1.00	19.97	B	N
50	ATOM	2894	CA	ILE	B	462	29.324	50.598	48.046	1.00	19.26	B	C
	ATOM	2895	CB	ILE	B	462	29.947	51.693	47.139	1.00	18.45	B	C
	ATOM	2896	CG2	ILE	B	462	29.126	52.964	47.243	1.00	18.65	B	C
	ATOM	2897	CG1	ILE	B	462	31.403	51.953	47.533	1.00	17.13	B	C
	ATOM	2898	CD1	ILE	B	462	32.059	53.102	46.774	1.00	15.75	B	C
55	ATOM	2899	C	ILE	B	462	30.060	49.291	47.803	1.00	18.71	B	C
	ATOM	2900	O	ILE	B	462	30.848	49.185	46.866	1.00	19.51	B	O
	ATOM	2901	N	TYR	B	463	29.804	48.299	48.647	1.00	18.86	B	N
	ATOM	2902	CA	TYR	B	463	30.438	47.000	48.489	1.00	19.41	B	C
	ATOM	2903	CB	TYR	B	463	30.024	46.047	49.613	1.00	18.21	B	C
60	ATOM	2904	CG	TYR	B	463	30.126	44.588	49.219	1.00	17.08	B	C
	ATOM	2905	CD1	TYR	B	463	31.354	43.916	49.261	1.00	17.27	B	C
	ATOM	2906	CE1	TYR	B	463	31.464	42.594	48.845	1.00	17.20	B	C
	ATOM	2907	CD2	TYR	B	463	29.010	43.895	48.754	1.00	14.89	B	C
	ATOM	2908	CE2	TYR	B	463	29.107	42.573	48.334	1.00	16.82	B	C
65	ATOM	2909	CZ	TYR	B	463	30.334	41.930	48.380	1.00	17.87	B	C
	ATOM	2910	OH	TYR	B	463	30.426	40.627	47.950	1.00	19.69	B	O
	ATOM	2911	C	TYR	B	463	30.017	46.396	47.155	1.00	20.74	B	C
	ATOM	2912	O	TYR	B	463	30.818	45.763	46.472	1.00	21.06	B	O
	ATOM	2913	N	ASP	B	464	28.750	46.587	46.800	1.00	21.06	B	N
	ATOM	2914	CA	ASP	B	464	28.210	46.051	45.556	1.00	23.38	B	C

	ATOM	2915	CB	ASP	B	464	26.712	46.374	45.437	1.00	23.87	B	C
	ATOM	2916	CG	ASP	B	464	26.403	47.858	45.631	1.00	26.93	B	C
	ATOM	2917	OD1	ASP	B	464	25.321	48.300	45.197	1.00	28.02	B	O
	ATOM	2918	OD2	ASP	B	464	27.229	48.589	46.214	1.00	28.88	B	O
5	ATOM	2919	C	ASP	B	464	28.960	46.579	44.337	1.00	23.82	B	C
	ATOM	2920	O	ASP	B	464	29.173	45.856	43.367	1.00	23.62	B	O
	ATOM	2921	N	VAL	B	465	29.366	47.840	44.392	1.00	24.45	B	N
	ATOM	2922	CA	VAL	B	465	30.099	48.441	43.293	1.00	24.99	B	C
	ATOM	2923	CB	VAL	B	465	30.266	49.965	43.509	1.00	24.16	B	C
10	ATOM	2924	CG1	VAL	B	465	31.224	50.542	42.488	1.00	23.70	B	C
	ATOM	2925	CG2	VAL	B	465	28.917	50.649	43.398	1.00	23.26	B	C
	ATOM	2926	C	VAL	B	465	31.474	47.779	43.169	1.00	26.65	B	C
	ATOM	2927	O	VAL	B	465	31.872	47.364	42.080	1.00	27.99	B	O
	ATOM	2928	N	PHE	B	466	32.188	47.673	44.288	1.00	26.79	B	N
15	ATOM	2929	CA	PHE	B	466	33.518	47.067	44.311	1.00	27.34	B	C
	ATOM	2930	CB	PHE	B	466	34.163	47.241	45.690	1.00	28.37	B	C
	ATOM	2931	CG	PHE	B	466	34.544	48.662	46.014	1.00	28.53	B	C
	ATOM	2932	CD1	PHE	B	466	35.101	49.487	45.046	1.00	28.81	B	C
	ATOM	2933	CD2	PHE	B	466	34.349	49.172	47.294	1.00	29.90	B	C
20	ATOM	2934	CE1	PHE	B	466	35.459	50.799	45.343	1.00	29.25	B	C
	ATOM	2935	CE2	PHE	B	466	34.705	50.485	47.602	1.00	29.95	B	C
	ATOM	2936	CZ	PHE	B	466	35.261	51.298	46.624	1.00	29.75	B	C
	ATOM	2937	C	PHE	B	466	33.481	45.582	43.973	1.00	27.28	B	C
	ATOM	2938	O	PHE	B	466	34.407	45.059	43.363	1.00	28.29	B	O
25	ATOM	2939	N	ARG	B	467	32.414	44.909	44.386	1.00	27.68	B	N
	ATOM	2940	CA	ARG	B	467	32.244	43.483	44.138	1.00	27.60	B	C
	ATOM	2941	CB	ARG	B	467	31.056	42.955	44.938	1.00	29.63	B	C
	ATOM	2942	CG	ARG	B	467	30.729	41.498	44.674	1.00	30.55	B	C
	ATOM	2943	CD	ARG	B	467	31.898	40.603	45.057	1.00	35.25	B	C
30	ATOM	2944	NE	ARG	B	467	31.588	39.207	44.788	1.00	38.76	B	N
	ATOM	2945	CZ	ARG	B	467	31.523	38.686	43.569	1.00	40.24	B	C
	ATOM	2946	NH1	ARG	B	467	31.750	39.448	42.510	1.00	41.85	B	N
	ATOM	2947	NH2	ARG	B	467	31.206	37.410	43.405	1.00	43.55	B	N
	ATOM	2948	C	ARG	B	467	32.028	43.171	42.661	1.00	28.80	B	C
35	ATOM	2949	O	ARG	B	467	32.637	42.248	42.117	1.00	28.89	B	O
	ATOM	2950	N	SER	B	468	31.151	43.934	42.018	1.00	28.69	B	N
	ATOM	2951	CA	SER	B	468	30.858	43.733	40.605	1.00	29.55	B	C
	ATOM	2952	CB	SER	B	468	29.697	44.631	40.175	1.00	28.81	B	C
40	ATOM	2953	OG	SER	B	468	30.070	45.992	40.241	1.00	33.14	B	O
	ATOM	2954	C	SER	B	468	32.088	44.006	39.741	1.00	28.79	B	C
	ATOM	2955	O	SER	B	468	32.208	43.473	38.641	1.00	29.85	B	O
	ATOM	2956	N	LYS	B	469	32.997	44.837	40.245	1.00	28.73	B	N
	ATOM	2957	CA	LYS	B	469	34.240	45.165	39.545	1.00	28.26	B	C
	ATOM	2958	CB	LYS	B	469	34.735	46.548	39.963	1.00	29.75	B	C
45	ATOM	2959	CG	LYS	B	469	34.189	47.705	39.155	1.00	33.76	B	C
	ATOM	2960	CD	LYS	B	469	34.781	49.023	39.645	1.00	36.92	B	C
	ATOM	2961	CE	LYS	B	469	34.318	50.204	38.801	1.00	39.66	B	C
	ATOM	2962	NZ	LYS	B	469	32.831	50.290	38.722	1.00	41.85	B	N
	ATOM	2963	C	LYS	B	469	35.304	44.134	39.933	1.00	28.79	B	C
50	ATOM	2964	O	LYS	B	469	36.444	44.189	39.473	1.00	27.52	B	O
	ATOM	2965	N	ASN	B	470	34.919	43.209	40.803	1.00	29.07	B	N
	ATOM	2966	CA	ASN	B	470	35.812	42.170	41.285	1.00	30.80	B	C
	ATOM	2967	CB	ASN	B	470	36.221	41.259	40.137	1.00	32.33	B	C
	ATOM	2968	CG	ASN	B	470	35.034	40.572	39.510	1.00	33.48	B	C
55	ATOM	2969	OD1	ASN	B	470	34.429	39.687	40.113	1.00	35.11	B	O
	ATOM	2970	ND2	ASN	B	470	34.680	40.986	38.297	1.00	33.30	B	N
	ATOM	2971	C	ASN	B	470	37.035	42.737	41.986	1.00	30.97	B	C
	ATOM	2972	O	ASN	B	470	38.153	42.254	41.816	1.00	29.48	B	O
	ATOM	2973	N	PHE	B	471	36.804	43.779	42.775	1.00	32.29	B	N
60	ATOM	2974	CA	PHE	B	471	37.859	44.410	43.551	1.00	32.11	B	C
	ATOM	2975	CB	PHE	B	471	37.522	45.871	43.839	1.00	33.53	B	C
	ATOM	2976	CG	PHE	B	471	37.923	46.818	42.749	1.00	35.42	B	C
	ATOM	2977	CD1	PHE	B	471	38.724	46.397	41.694	1.00	36.95	B	C
	ATOM	2978	CD2	PHE	B	471	37.494	48.140	42.778	1.00	37.38	B	C
65	ATOM	2979	CE1	PHE	B	471	39.095	47.280	40.678	1.00	36.49	B	C
	ATOM	2980	CE2	PHE	B	471	37.858	49.032	41.770	1.00	38.62	B	C
	ATOM	2981	CZ	PHE	B	471	38.661	48.599	40.718	1.00	37.95	B	C
	ATOM	2982	C	PHE	B	471	37.924	43.650	44.869	1.00	31.33	B	C

	ATOM	2983	O	PHE	B	471	38.951	43.658	45.546	1.00	33.10	B	O
	ATOM	2984	N	LEU	B	472	36.815	42.997	45.219	1.00	28.70	B	N
	ATOM	2985	CA	LEU	B	472	36.704	42.222	46.455	1.00	28.37	B	C
	ATOM	2986	CB	LEU	B	472	35.973	43.023	47.546	1.00	26.91	B	C
5	ATOM	2987	CG	LEU	B	472	36.407	44.451	47.879	1.00	27.35	B	C
	ATOM	2988	CD1	LEU	B	472	35.257	45.183	48.545	1.00	28.12	B	C
	ATOM	2989	CD2	LEU	B	472	37.627	44.424	48.782	1.00	26.17	B	C
	ATOM	2990	C	LEU	B	472	35.934	40.924	46.231	1.00	26.82	B	C
10	ATOM	2991	O	LEU	B	472	35.053	40.851	45.375	1.00	25.71	B	O
	ATOM	2992	N	PRO	B	473	36.260	39.881	47.011	1.00	26.23	B	N
	ATOM	2993	CD	PRO	B	473	37.332	39.867	48.023	1.00	26.26	B	C
	ATOM	2994	CA	PRO	B	473	35.595	38.581	46.902	1.00	24.96	B	C
	ATOM	2995	CB	PRO	B	473	36.679	37.593	47.324	1.00	25.24	B	C
	ATOM	2996	CG	PRO	B	473	37.601	38.393	48.230	1.00	26.93	B	C
15	ATOM	2997	C	PRO	B	473	34.349	38.460	47.773	1.00	24.58	B	C
	ATOM	2998	O	PRO	B	473	33.417	37.728	47.433	1.00	24.91	B	O
	ATOM	2999	N	HIS	B	474	34.335	39.182	48.892	1.00	24.10	B	N
	ATOM	3000	CA	HIS	B	474	33.213	39.139	49.841	1.00	23.91	B	C
20	ATOM	3001	CB	HIS	B	474	33.304	37.871	50.704	1.00	22.96	B	C
	ATOM	3002	CG	HIS	B	474	34.625	37.713	51.391	1.00	22.97	B	C
	ATOM	3003	CD2	HIS	B	474	35.231	38.465	52.340	1.00	23.52	B	C
	ATOM	3004	ND1	HIS	B	474	35.520	36.716	51.067	1.00	22.32	B	N
	ATOM	3005	CE1	HIS	B	474	36.619	36.861	51.784	1.00	21.84	B	C
	ATOM	3006	NE2	HIS	B	474	36.469	37.915	52.565	1.00	25.39	B	N
25	ATOM	3007	C	HIS	B	474	33.223	40.375	50.752	1.00	23.12	B	C
	ATOM	3008	O	HIS	B	474	34.173	41.161	50.738	1.00	22.18	B	O
	ATOM	3009	N	PHE	B	475	32.175	40.528	51.557	1.00	23.30	B	N
	ATOM	3010	CA	PHE	B	475	32.057	41.678	52.455	1.00	23.11	B	C
30	ATOM	3011	CB	PHE	B	475	30.658	41.730	53.075	1.00	20.74	B	C
	ATOM	3012	CG	PHE	B	475	30.320	43.058	53.690	1.00	22.09	B	C
	ATOM	3013	CD1	PHE	B	475	30.133	43.177	55.066	1.00	20.94	B	C
	ATOM	3014	CD2	PHE	B	475	30.195	44.197	52.899	1.00	22.49	B	C
	ATOM	3015	CE1	PHE	B	475	29.828	44.406	55.643	1.00	19.81	B	C
	ATOM	3016	CE2	PHE	B	475	29.889	45.439	53.469	1.00	22.15	B	C
35	ATOM	3017	CZ	PHE	B	475	29.705	45.538	54.847	1.00	20.50	B	C
	ATOM	3018	C	PHE	B	475	33.111	41.691	53.562	1.00	21.93	B	C
	ATOM	3019	O	PHE	B	475	33.562	42.753	53.987	1.00	22.76	B	O
	ATOM	3020	N	GLY	B	476	33.506	40.508	54.016	1.00	21.39	B	N
40	ATOM	3021	CA	GLY	B	476	34.503	40.416	55.066	1.00	19.40	B	C
	ATOM	3022	C	GLY	B	476	35.803	41.088	54.691	1.00	19.66	B	C
	ATOM	3023	O	GLY	B	476	36.492	41.650	55.549	1.00	17.77	B	O
	ATOM	3024	N	LYS	B	477	36.137	41.041	53.402	1.00	20.49	B	N
	ATOM	3025	CA	LYS	B	477	37.370	41.644	52.913	1.00	19.54	B	C
	ATOM	3026	CB	LYS	B	477	37.691	41.127	51.512	1.00	20.19	B	C
45	ATOM	3027	CG	LYS	B	477	39.000	41.634	50.960	1.00	21.17	B	C
	ATOM	3028	CD	LYS	B	477	40.189	41.094	51.736	1.00	24.54	B	C
	ATOM	3029	CE	LYS	B	477	41.472	41.782	51.302	1.00	25.60	B	C
	ATOM	3030	NZ	LYS	B	477	42.665	41.211	51.983	1.00	28.70	B	N
	ATOM	3031	C	LYS	B	477	37.284	43.163	52.907	1.00	18.67	B	C
50	ATOM	3032	O	LYS	B	477	38.305	43.848	52.971	1.00	19.61	B	O
	ATOM	3033	N	MET	B	478	36.067	43.694	52.825	1.00	19.33	B	N
	ATOM	3034	CA	MET	B	478	35.888	45.142	52.848	1.00	20.54	B	C
	ATOM	3035	CB	MET	B	478	34.479	45.536	52.389	1.00	19.93	B	C
	ATOM	3036	CG	MET	B	478	34.357	47.015	52.036	1.00	19.72	B	C
55	ATOM	3037	SD	MET	B	478	32.667	47.543	51.664	1.00	22.18	B	S
	ATOM	3038	CE	MET	B	478	32.875	49.305	51.519	1.00	16.83	B	C
	ATOM	3039	C	MET	B	478	36.105	45.618	54.279	1.00	20.69	B	C
	ATOM	3040	O	MET	B	478	36.807	46.604	54.521	1.00	21.04	B	O
60	ATOM	3041	N	LEU	B	479	35.501	44.897	55.220	1.00	18.75	B	N
	ATOM	3042	CA	LEU	B	479	35.615	45.215	56.637	1.00	19.61	B	C
	ATOM	3043	CB	LEU	B	479	34.786	44.230	57.466	1.00	17.44	B	C
	ATOM	3044	CG	LEU	B	479	33.259	44.364	57.415	1.00	15.55	B	C
	ATOM	3045	CD1	LEU	B	479	32.623	43.224	58.198	1.00	14.97	B	C
	ATOM	3046	CD2	LEU	B	479	32.832	45.699	57.994	1.00	13.51	B	C
65	ATOM	3047	C	LEU	B	479	37.079	45.137	57.054	1.00	20.11	B	C
	ATOM	3048	O	LEU	B	479	37.562	45.958	57.841	1.00	19.87	B	O
	ATOM	3049	N	GLU	B	480	37.785	44.151	56.510	1.00	21.01	B	N
	ATOM	3050	CA	GLU	B	480	39.195	43.968	56.818	1.00	22.05	B	C

	ATOM	3051	CB	GLU	B	480	39.706	42.675	56.181	1.00	24.42	B	C
	ATOM	3052	CG	GLU	B	480	41.211	42.618	56.025	1.00	29.69	B	C
	ATOM	3053	CD	GLU	B	480	41.728	41.202	55.961	1.00	32.83	B	C
5	ATOM	3054	OE1	GLU	B	480	40.909	40.277	55.794	1.00	34.39	B	O
	ATOM	3055	OE2	GLU	B	480	42.958	41.012	56.079	1.00	37.09	B	O
	ATOM	3056	C	GLU	B	480	40.036	45.152	56.345	1.00	21.97	B	C
	ATOM	3057	O	GLU	B	480	40.875	45.654	57.091	1.00	21.62	B	O
	ATOM	3058	N	ASN	B	481	39.810	45.599	55.111	1.00	22.14	B	N
10	ATOM	3059	CA	ASN	B	481	40.560	46.728	54.568	1.00	20.88	B	C
	ATOM	3060	CB	ASN	B	481	40.209	46.951	53.100	1.00	22.56	B	C
	ATOM	3061	CG	ASN	B	481	40.656	45.808	52.218	1.00	25.25	B	C
	ATOM	3062	OD1	ASN	B	481	40.049	45.544	51.183	1.00	27.89	B	O
	ATOM	3063	ND2	ASN	B	481	41.722	45.121	52.621	1.00	25.06	B	N
	ATOM	3064	C	ASN	B	481	40.264	47.996	55.349	1.00	19.71	B	C
15	ATOM	3065	O	ASN	B	481	41.120	48.870	55.476	1.00	18.58	B	O
	ATOM	3066	N	VAL	B	482	39.046	48.098	55.869	1.00	19.48	B	N
	ATOM	3067	CA	VAL	B	482	38.663	49.276	56.637	1.00	20.49	B	C
	ATOM	3068	CB	VAL	B	482	37.121	49.408	56.757	1.00	19.10	B	C
	ATOM	3069	CG1	VAL	B	482	36.768	50.575	57.671	1.00	18.04	B	C
20	ATOM	3070	CG2	VAL	B	482	36.506	49.632	55.382	1.00	18.90	B	C
	ATOM	3071	C	VAL	B	482	39.248	49.284	58.049	1.00	20.58	B	C
	ATOM	3072	O	VAL	B	482	39.832	50.283	58.479	1.00	20.46	B	O
	ATOM	3073	N	PHE	B	483	39.124	48.169	58.762	1.00	20.85	B	N
	ATOM	3074	CA	PHE	B	483	39.605	48.123	60.143	1.00	20.90	B	C
25	ATOM	3075	CB	PHE	B	483	38.534	47.471	61.025	1.00	19.00	B	C
	ATOM	3076	CG	PHE	B	483	37.232	48.227	61.050	1.00	17.17	B	C
	ATOM	3077	CD1	PHE	B	483	37.142	49.459	61.676	1.00	18.55	B	C
	ATOM	3078	CD2	PHE	B	483	36.101	47.717	60.426	1.00	17.64	B	C
	ATOM	3079	CE1	PHE	B	483	35.940	50.179	61.681	1.00	16.52	B	C
30	ATOM	3080	CE2	PHE	B	483	34.899	48.424	60.424	1.00	16.43	B	C
	ATOM	3081	CZ	PHE	B	483	34.822	49.658	61.055	1.00	16.51	B	C
	ATOM	3082	C	PHE	B	483	40.971	47.509	60.463	1.00	21.44	B	C
	ATOM	3083	O	PHE	B	483	41.663	47.997	61.352	1.00	22.94	B	O
	ATOM	3084	N	MET	B	484	41.376	46.463	59.756	1.00	21.30	B	N
35	ATOM	3085	CA	MET	B	484	42.659	45.827	60.054	1.00	23.27	B	C
	ATOM	3086	CB	MET	B	484	42.936	44.708	59.045	1.00	24.57	B	C
	ATOM	3087	CG	MET	B	484	44.074	43.764	59.432	1.00	26.98	B	C
	ATOM	3088	SD	MET	B	484	43.821	42.828	60.966	1.00	29.42	B	S
	ATOM	3089	CE	MET	B	484	42.799	41.497	60.429	1.00	26.51	B	C
40	ATOM	3090	C	MET	B	484	43.869	46.768	60.132	1.00	23.90	B	C
	ATOM	3091	O	MET	B	484	44.661	46.692	61.070	1.00	25.43	B	O
	ATOM	3092	N	PRO	B	485	44.034	47.666	59.149	1.00	24.47	B	N
	ATOM	3093	CD	PRO	B	485	43.208	47.898	57.953	1.00	24.82	B	C
45	ATOM	3094	CA	PRO	B	485	45.183	48.577	59.199	1.00	23.77	B	C
	ATOM	3095	CB	PRO	B	485	45.029	49.425	57.937	1.00	24.61	B	C
	ATOM	3096	CG	PRO	B	485	44.148	48.614	57.038	1.00	23.85	B	C
	ATOM	3097	C	PRO	B	485	45.227	49.436	60.457	1.00	24.30	B	C
	ATOM	3098	O	PRO	B	485	46.300	49.712	60.996	1.00	25.38	B	O
	ATOM	3099	N	VAL	B	486	44.055	49.867	60.912	1.00	24.20	B	N
50	ATOM	3100	CA	VAL	B	486	43.962	50.702	62.099	1.00	23.89	B	C
	ATOM	3101	CB	VAL	B	486	42.566	51.322	62.214	1.00	24.59	B	C
	ATOM	3102	CG1	VAL	B	486	42.568	52.417	63.257	1.00	25.07	B	C
	ATOM	3103	CG2	VAL	B	486	42.148	51.883	60.871	1.00	25.11	B	C
	ATOM	3104	C	VAL	B	486	44.275	49.894	63.357	1.00	24.01	B	C
55	ATOM	3105	O	VAL	B	486	44.865	50.417	64.302	1.00	25.18	B	O
	ATOM	3106	N	PHE	B	487	43.877	48.627	63.373	1.00	23.45	B	N
	ATOM	3107	CA	PHE	B	487	44.162	47.768	64.515	1.00	25.97	B	C
	ATOM	3108	CB	PHE	B	487	43.445	46.428	64.376	1.00	26.51	B	C
	ATOM	3109	CG	PHE	B	487	42.072	46.407	64.987	1.00	27.68	B	C
60	ATOM	3110	CD1	PHE	B	487	40.949	46.702	64.215	1.00	27.36	B	C
	ATOM	3111	CD2	PHE	B	487	41.897	46.083	66.328	1.00	26.03	B	C
	ATOM	3112	CE1	PHE	B	487	39.669	46.675	64.773	1.00	25.66	B	C
	ATOM	3113	CE2	PHE	B	487	40.625	46.053	66.897	1.00	25.29	B	C
	ATOM	3114	CZ	PHE	B	487	39.508	46.350	66.118	1.00	25.83	B	C
65	ATOM	3115	C	PHE	B	487	45.669	47.533	64.556	1.00	27.90	B	C
	ATOM	3116	O	PHE	B	487	46.271	47.495	65.626	1.00	28.82	B	O
	ATOM	3117	N	GLU	B	488	46.271	47.388	63.378	1.00	28.35	B	N
	ATOM	3118	CA	GLU	B	488	47.708	47.160	63.263	1.00	29.93	B	C

	ATOM	3119	CB	GLU	B	488	48.095	46.946	61.800	1.00	31.98	B	C
	ATOM	3120	CG	GLU	B	488	48.611	45.555	61.498	1.00	36.89	B	C
	ATOM	3121	CD	GLU	B	488	48.071	45.009	60.185	1.00	40.88	B	C
	ATOM	3122	OE1	GLU	B	488	47.831	45.818	59.258	1.00	41.84	B	O
5	ATOM	3123	OE2	GLU	B	488	47.887	43.772	60.080	1.00	42.37	B	O
	ATOM	3124	C	GLU	B	488	48.523	48.316	63.831	1.00	28.88	B	C
	ATOM	3125	O	GLU	B	488	49.518	48.099	64.522	1.00	29.29	B	O
	ATOM	3126	N	ALA	B	489	48.111	49.541	63.529	1.00	27.00	B	N
10	ATOM	3127	CA	ALA	B	489	48.821	50.714	64.028	1.00	27.62	B	C
	ATOM	3128	CB	ALA	B	489	48.341	51.965	63.292	1.00	24.57	B	C
	ATOM	3129	C	ALA	B	489	48.628	50.883	65.544	1.00	27.27	B	C
	ATOM	3130	O	ALA	B	489	49.451	51.504	66.217	1.00	26.44	B	O
	ATOM	3131	N	THR	B	490	47.535	50.335	66.070	1.00	27.41	B	N
	ATOM	3132	CA	THR	B	490	47.234	50.423	67.499	1.00	28.22	B	C
15	ATOM	3133	CB	THR	B	490	45.776	49.980	67.790	1.00	26.62	B	C
	ATOM	3134	OG1	THR	B	490	44.868	50.962	67.277	1.00	25.82	B	O
	ATOM	3135	CG2	THR	B	490	45.546	49.829	69.286	1.00	27.17	B	C
	ATOM	3136	C	THR	B	490	48.188	49.521	68.279	1.00	28.79	B	C
	ATOM	3137	O	THR	B	490	48.830	49.943	69.240	1.00	28.16	B	O
20	ATOM	3138	N	ILE	B	491	48.277	48.276	67.831	1.00	29.82	B	N
	ATOM	3139	CA	ILE	B	491	49.130	47.272	68.441	1.00	30.29	B	C
	ATOM	3140	CB	ILE	B	491	48.781	45.882	67.859	1.00	29.46	B	C
	ATOM	3141	CG2	ILE	B	491	50.028	45.090	67.548	1.00	32.61	B	C
	ATOM	3142	CG1	ILE	B	491	47.908	45.127	68.850	1.00	29.85	B	C
25	ATOM	3143	CD1	ILE	B	491	46.528	44.838	68.325	1.00	31.15	B	C
	ATOM	3144	C	ILE	B	491	50.625	47.575	68.267	1.00	30.02	B	C
	ATOM	3145	O	ILE	B	491	51.412	47.316	69.173	1.00	31.28	B	O
	ATOM	3146	N	ASN	B	492	51.011	48.125	67.114	1.00	30.39	B	N
	ATOM	3147	CA	ASN	B	492	52.413	48.454	66.837	1.00	28.94	B	C
30	ATOM	3148	CB	ASN	B	492	52.983	47.493	65.794	1.00	30.30	B	C
	ATOM	3149	CG	ASN	B	492	52.811	46.038	66.188	1.00	32.56	B	C
	ATOM	3150	OD1	ASN	B	492	53.172	45.638	67.296	1.00	33.79	B	O
	ATOM	3151	ND2	ASN	B	492	52.256	45.237	65.281	1.00	30.89	B	N
	ATOM	3152	C	ASN	B	492	52.581	49.886	66.336	1.00	29.24	B	C
35	ATOM	3153	O	ASN	B	492	52.945	50.110	65.185	1.00	28.69	B	O
	ATOM	3154	N	PRO	B	493	52.345	50.878	67.208	1.00	29.79	B	N
	ATOM	3155	CD	PRO	B	493	51.959	50.742	68.625	1.00	29.15	B	C
	ATOM	3156	CA	PRO	B	493	52.476	52.283	66.808	1.00	30.61	B	C
	ATOM	3157	CB	PRO	B	493	52.240	53.057	68.109	1.00	28.45	B	C
40	ATOM	3158	CG	PRO	B	493	51.493	52.119	68.985	1.00	27.45	B	C
	ATOM	3159	C	PRO	B	493	53.813	52.648	66.165	1.00	31.97	B	C
	ATOM	3160	O	PRO	B	493	53.872	53.513	65.288	1.00	33.39	B	O
	ATOM	3161	N	GLN	B	494	54.882	51.993	66.597	1.00	32.76	B	N
	ATOM	3162	CA	GLN	B	494	56.208	52.288	66.069	1.00	34.64	B	C
45	ATOM	3163	CB	GLN	B	494	57.270	51.660	66.968	1.00	37.59	B	C
	ATOM	3164	CG	GLN	B	494	57.130	52.057	68.423	1.00	40.85	B	C
	ATOM	3165	CD	GLN	B	494	57.853	53.344	68.745	1.00	41.49	B	C
	ATOM	3166	OE1	GLN	B	494	58.487	53.459	69.790	1.00	45.77	B	O
	ATOM	3167	NE2	GLN	B	494	57.766	54.319	67.850	1.00	42.67	B	N
50	ATOM	3168	C	GLN	B	494	56.412	51.828	64.630	1.00	33.48	B	C
	ATOM	3169	O	GLN	B	494	57.133	52.467	63.861	1.00	33.18	B	O
	ATOM	3170	N	ALA	B	495	55.778	50.716	64.275	1.00	32.71	B	N
	ATOM	3171	CA	ALA	B	495	55.880	50.170	62.929	1.00	31.71	B	C
	ATOM	3172	CB	ALA	B	495	55.341	48.746	62.906	1.00	28.86	B	C
55	ATOM	3173	C	ALA	B	495	55.098	51.049	61.955	1.00	31.29	B	C
	ATOM	3174	O	ALA	B	495	55.400	51.088	60.760	1.00	33.44	B	O
	ATOM	3175	N	HIS	B	496	54.100	51.761	62.474	1.00	30.33	B	N
	ATOM	3176	CA	HIS	B	496	53.268	52.640	61.656	1.00	29.06	B	C
	ATOM	3177	CB	HIS	B	496	51.884	52.027	61.488	1.00	28.42	B	C
60	ATOM	3178	CG	HIS	B	496	51.909	50.574	61.135	1.00	28.22	B	C
	ATOM	3179	CD2	HIS	B	496	51.673	49.470	61.882	1.00	28.87	B	C
	ATOM	3180	ND1	HIS	B	496	52.180	50.123	59.861	1.00	29.19	B	N
	ATOM	3181	CE1	HIS	B	496	52.107	48.803	59.840	1.00	29.53	B	C
	ATOM	3182	NE2	HIS	B	496	51.800	48.383	61.053	1.00	27.81	B	N
65	ATOM	3183	C	HIS	B	496	53.143	54.028	62.286	1.00	28.63	B	C
	ATOM	3184	O	HIS	B	496	52.072	54.426	62.746	1.00	28.36	B	O
	ATOM	3185	N	PRO	B	497	54.244	54.787	62.300	1.00	27.21	B	N
	ATOM	3186	CD	PRO	B	497	55.549	54.381	61.753	1.00	27.09	B	C

	ATOM	3187	CA	PRO	B	497	54.291	56.135	62.870	1.00	27.21	B	C
	ATOM	3188	CB	PRO	B	497	55.756	56.535	62.715	1.00	27.79	B	C
	ATOM	3189	CG	PRO	B	497	56.257	55.684	61.594	1.00	27.78	B	C
	ATOM	3190	C	PRO	B	497	53.353	57.176	62.257	1.00	27.03	B	C
5	ATOM	3191	O	PRO	B	497	52.669	57.897	62.983	1.00	27.20	B	O
	ATOM	3192	N	GLU	B	498	53.327	57.268	60.932	1.00	26.55	B	N
	ATOM	3193	CA	GLU	B	498	52.479	58.253	60.262	1.00	26.29	B	C
	ATOM	3194	CB	GLU	B	498	52.816	58.331	58.765	1.00	27.53	B	C
	ATOM	3195	CG	GLU	B	498	53.302	59.709	58.336	1.00	32.03	B	C
10	ATOM	3196	CD	GLU	B	498	53.804	59.759	56.902	1.00	34.26	B	C
	ATOM	3197	OE1	GLU	B	498	53.514	58.830	56.119	1.00	38.31	B	O
	ATOM	3198	OE2	GLU	B	498	54.492	60.741	56.553	1.00	38.15	B	O
	ATOM	3199	C	GLU	B	498	50.996	57.968	60.449	1.00	24.19	B	C
	ATOM	3200	O	GLU	B	498	50.207	58.883	60.688	1.00	22.53	B	O
15	ATOM	3201	N	LEU	B	499	50.618	56.699	60.332	1.00	23.20	B	N
	ATOM	3202	CA	LEU	B	499	49.223	56.316	60.511	1.00	22.64	B	C
	ATOM	3203	CB	LEU	B	499	49.024	54.842	60.150	1.00	20.60	B	C
	ATOM	3204	CG	LEU	B	499	47.610	54.275	60.301	1.00	18.95	B	C
	ATOM	3205	CD1	LEU	B	499	46.601	55.185	59.618	1.00	18.15	B	C
20	ATOM	3206	CD2	LEU	B	499	47.564	52.872	59.704	1.00	18.39	B	C
	ATOM	3207	C	LEU	B	499	48.831	56.559	61.970	1.00	23.62	B	C
	ATOM	3208	O	LEU	B	499	47.745	57.059	62.249	1.00	23.36	B	O
	ATOM	3209	N	SER	B	500	49.727	56.205	62.892	1.00	24.00	B	N
	ATOM	3210	CA	SER	B	500	49.489	56.390	64.324	1.00	24.12	B	C
25	ATOM	3211	CB	SER	B	500	50.723	55.965	65.128	1.00	23.77	B	C
	ATOM	3212	OG	SER	B	500	50.851	54.555	65.183	1.00	22.24	B	O
	ATOM	3213	C	SER	B	500	49.173	57.857	64.617	1.00	24.41	B	C
	ATOM	3214	O	SER	B	500	48.232	58.167	65.354	1.00	25.66	B	O
	ATOM	3215	N	VAL	B	501	49.967	58.753	64.036	1.00	24.19	B	N
30	ATOM	3216	CA	VAL	B	501	49.780	60.185	64.218	1.00	23.23	B	C
	ATOM	3217	CB	VAL	B	501	50.916	60.967	63.528	1.00	23.29	B	C
	ATOM	3218	CG1	VAL	B	501	50.524	62.432	63.337	1.00	19.98	B	C
	ATOM	3219	CG2	VAL	B	501	52.184	60.851	64.357	1.00	23.03	B	C
	ATOM	3220	C	VAL	B	501	48.433	60.632	63.646	1.00	23.98	B	C
35	ATOM	3221	O	VAL	B	501	47.689	61.381	64.284	1.00	24.62	B	O
	ATOM	3222	N	PHE	B	502	48.125	60.161	62.442	1.00	23.17	B	N
	ATOM	3223	CA	PHE	B	502	46.878	60.505	61.769	1.00	20.91	B	C
	ATOM	3224	CB	PHE	B	502	46.822	59.793	60.405	1.00	19.73	B	C
	ATOM	3225	CG	PHE	B	502	45.558	60.050	59.617	1.00	18.89	B	C
40	ATOM	3226	CD1	PHE	B	502	45.157	61.348	59.308	1.00	18.74	B	C
	ATOM	3227	CD2	PHE	B	502	44.784	58.987	59.164	1.00	18.00	B	C
	ATOM	3228	CE1	PHE	B	502	44.003	61.585	58.554	1.00	18.91	B	C
	ATOM	3229	CE2	PHE	B	502	43.632	59.209	58.410	1.00	21.21	B	C
	ATOM	3230	CZ	PHE	B	502	43.238	60.516	58.103	1.00	19.33	B	C
45	ATOM	3231	C	PHE	B	502	45.687	60.096	62.639	1.00	20.96	B	C
	ATOM	3232	O	PHE	B	502	44.762	60.879	62.858	1.00	20.26	B	O
	ATOM	3233	N	LEU	B	503	45.727	58.868	63.146	1.00	21.04	B	N
	ATOM	3234	CA	LEU	B	503	44.647	58.344	63.976	1.00	20.47	B	C
	ATOM	3235	CB	LEU	B	503	44.959	56.906	64.379	1.00	18.13	B	C
50	ATOM	3236	CG	LEU	B	503	44.775	55.882	63.260	1.00	19.46	B	C
	ATOM	3237	CD1	LEU	B	503	45.201	54.515	63.758	1.00	17.74	B	C
	ATOM	3238	CD2	LEU	B	503	43.320	55.870	62.799	1.00	15.62	B	C
	ATOM	3239	C	LEU	B	503	44.363	59.186	65.221	1.00	21.07	B	C
	ATOM	3240	O	LEU	B	503	43.270	59.119	65.786	1.00	22.31	B	O
55	ATOM	3241	N	LYS	B	504	45.340	59.976	65.649	1.00	20.89	B	N
	ATOM	3242	CA	LYS	B	504	45.152	60.836	66.813	1.00	22.28	B	C
	ATOM	3243	CB	LYS	B	504	46.499	61.283	67.382	1.00	22.33	B	C
	ATOM	3244	CG	LYS	B	504	47.216	60.209	68.176	1.00	25.30	B	C
	ATOM	3245	CD	LYS	B	504	48.624	60.652	68.547	1.00	26.81	B	C
60	ATOM	3246	CE	LYS	B	504	48.603	61.848	69.487	1.00	28.07	B	C
	ATOM	3247	NZ	LYS	B	504	49.948	62.485	69.598	1.00	30.72	B	N
	ATOM	3248	C	LYS	B	504	44.346	62.069	66.417	1.00	21.84	B	C
	ATOM	3249	O	LYS	B	504	43.874	62.806	67.278	1.00	22.04	B	O
	ATOM	3250	N	HIS	B	505	44.201	62.285	65.109	1.00	20.63	B	N
65	ATOM	3251	CA	HIS	B	505	43.463	63.428	64.585	1.00	17.86	B	C
	ATOM	3252	CB	HIS	B	505	44.234	64.062	63.425	1.00	19.25	B	C
	ATOM	3253	CG	HIS	B	505	45.484	64.778	63.841	1.00	20.53	B	C
	ATOM	3254	CD2	HIS	B	505	46.703	64.310	64.200	1.00	21.03	B	C

	ATOM	3255	ND1	HIS	B	505	45.574	66.153	63.888	1.00	22.79	B	N
	ATOM	3256	CE1	HIS	B	505	46.796	66.502	64.254	1.00	21.63	B	C
	ATOM	3257	NE2	HIS	B	505	47.500	65.403	64.450	1.00	21.32	B	N
5	ATOM	3258	C	HIS	B	505	42.061	63.053	64.113	1.00	16.44	B	C
	ATOM	3259	O	HIS	B	505	41.291	63.925	63.716	1.00	15.92	B	O
	ATOM	3260	N	ILE	B	506	41.741	61.761	64.154	1.00	14.23	B	N
	ATOM	3261	CA	ILE	B	506	40.425	61.270	63.736	1.00	15.34	B	C
	ATOM	3262	CB	ILE	B	506	40.522	59.896	63.017	1.00	13.54	B	C
10	ATOM	3263	CG2	ILE	B	506	39.123	59.352	62.751	1.00	11.36	B	C
	ATOM	3264	CG1	ILE	B	506	41.297	60.036	61.694	1.00	13.79	B	C
	ATOM	3265	CD1	ILE	B	506	40.908	61.243	60.848	1.00	13.48	B	C
	ATOM	3266	C	ILE	B	506	39.516	61.114	64.955	1.00	17.33	B	C
	ATOM	3267	O	ILE	B	506	39.838	60.379	65.894	1.00	18.00	B	O
15	ATOM	3268	N	THR	B	507	38.372	61.793	64.925	1.00	17.90	B	N
	ATOM	3269	CA	THR	B	507	37.426	61.762	66.033	1.00	17.21	B	C
	ATOM	3270	CB	THR	B	507	36.764	63.147	66.219	1.00	18.41	B	C
	ATOM	3271	OG1	THR	B	507	35.818	63.382	65.166	1.00	20.12	B	O
	ATOM	3272	CG2	THR	B	507	37.819	64.245	66.200	1.00	16.14	B	C
20	ATOM	3273	C	THR	B	507	36.328	60.700	65.930	1.00	16.84	B	C
	ATOM	3274	O	THR	B	507	35.813	60.237	66.952	1.00	15.77	B	O
	ATOM	3275	N	GLY	B	508	35.972	60.306	64.709	1.00	16.13	B	N
	ATOM	3276	CA	GLY	B	508	34.931	59.304	64.547	1.00	15.62	B	C
	ATOM	3277	C	GLY	B	508	34.741	58.779	63.138	1.00	15.59	B	C
	ATOM	3278	O	GLY	B	508	35.447	59.191	62.213	1.00	15.18	B	O
25	ATOM	3279	N	PHE	B	509	33.774	57.874	62.980	1.00	16.07	B	N
	ATOM	3280	CA	PHE	B	509	33.454	57.257	61.692	1.00	15.57	B	C
	ATOM	3281	CB	PHE	B	509	33.603	55.740	61.778	1.00	16.29	B	C
	ATOM	3282	CG	PHE	B	509	35.024	55.274	61.880	1.00	20.52	B	C
30	ATOM	3283	CD1	PHE	B	509	35.717	54.862	60.745	1.00	20.01	B	C
	ATOM	3284	CD2	PHE	B	509	35.670	55.238	63.111	1.00	21.03	B	C
	ATOM	3285	CE1	PHE	B	509	37.033	54.424	60.834	1.00	22.43	B	C
	ATOM	3286	CE2	PHE	B	509	36.987	54.800	63.212	1.00	21.81	B	C
	ATOM	3287	CZ	PHE	B	509	37.671	54.392	62.070	1.00	22.54	B	C
35	ATOM	3288	C	PHE	B	509	32.036	57.566	61.206	1.00	17.34	B	C
	ATOM	3289	O	PHE	B	509	31.083	57.568	61.991	1.00	16.21	B	O
	ATOM	3290	N	ASP	B	510	31.906	57.816	59.902	1.00	15.44	B	N
	ATOM	3291	CA	ASP	B	510	30.617	58.099	59.286	1.00	14.86	B	C
	ATOM	3292	CB	ASP	B	510	30.653	59.464	58.593	1.00	14.53	B	C
40	ATOM	3293	CG	ASP	B	510	29.275	60.095	58.449	1.00	13.67	B	C
	ATOM	3294	OD1	ASP	B	510	28.274	59.364	58.323	1.00	12.01	B	O
	ATOM	3295	OD2	ASP	B	510	29.191	61.338	58.457	1.00	16.39	B	O
	ATOM	3296	C	ASP	B	510	30.330	57.000	58.264	1.00	16.47	B	C
	ATOM	3297	O	ASP	B	510	31.236	56.277	57.848	1.00	17.19	B	O
45	ATOM	3298	N	SER	B	511	29.065	56.864	57.881	1.00	18.53	B	N
	ATOM	3299	CA	SER	B	511	28.645	55.869	56.893	1.00	18.39	B	C
	ATOM	3300	CB	SER	B	511	27.888	54.734	57.573	1.00	17.77	B	C
	ATOM	3301	OG	SER	B	511	27.347	53.855	56.609	1.00	19.84	B	O
	ATOM	3302	C	SER	B	511	27.731	56.584	55.902	1.00	18.77	B	C
50	ATOM	3303	O	SER	B	511	26.708	57.137	56.296	1.00	17.76	B	O
	ATOM	3304	N	VAL	B	512	28.092	56.571	54.620	1.00	19.58	B	N
	ATOM	3305	CA	VAL	B	512	27.303	57.275	53.608	1.00	18.87	B	C
	ATOM	3306	CB	VAL	B	512	28.066	58.515	53.095	1.00	17.52	B	C
	ATOM	3307	CG1	VAL	B	512	28.355	59.461	54.239	1.00	19.81	B	C
55	ATOM	3308	CG2	VAL	B	512	29.361	58.088	52.442	1.00	19.09	B	C
	ATOM	3309	C	VAL	B	512	26.862	56.461	52.389	1.00	18.70	B	C
	ATOM	3310	O	VAL	B	512	27.512	55.496	51.994	1.00	18.08	B	O
	ATOM	3311	N	ASP	B	513	25.749	56.887	51.800	1.00	19.24	B	N
	ATOM	3312	CA	ASP	B	513	25.160	56.259	50.617	1.00	21.60	B	C
60	ATOM	3313	CB	ASP	B	513	25.037	54.737	50.804	1.00	21.87	B	C
	ATOM	3314	CG	ASP	B	513	24.773	53.994	49.485	1.00	23.23	B	C
	ATOM	3315	OD1	ASP	B	513	24.835	54.620	48.404	1.00	20.41	B	O
	ATOM	3316	OD2	ASP	B	513	24.500	52.775	49.531	1.00	24.11	B	O
	ATOM	3317	C	ASP	B	513	23.775	56.856	50.400	1.00	21.55	B	C
65	ATOM	3318	O	ASP	B	513	23.314	57.671	51.197	1.00	21.74	B	O
	ATOM	3319	N	ASP	B	514	23.117	56.466	49.313	1.00	23.95	B	N
	ATOM	3320	CA	ASP	B	514	21.767	56.944	49.029	1.00	23.75	B	C
	ATOM	3321	CB	ASP	B	514	21.397	56.667	47.574	1.00	25.43	B	C
	ATOM	3322	CG	ASP	B	514	20.016	57.183	47.213	1.00	27.69	B	C

	ATOM	3323	OD1	ASP	B	514	19.270	57.608	48.121	1.00	27.98	B	O
	ATOM	3324	OD2	ASP	B	514	19.674	57.166	46.015	1.00	29.62	B	O
	ATOM	3325	C	ASP	B	514	20.856	56.152	49.954	1.00	23.66	B	C
	ATOM	3326	O	ASP	B	514	20.558	54.987	49.691	1.00	23.14	B	O
5	ATOM	3327	N	GLU	B	515	20.421	56.786	51.040	1.00	23.21	B	N
	ATOM	3328	CA	GLU	B	515	19.582	56.120	52.024	1.00	22.82	B	C
	ATOM	3329	CB	GLU	B	515	19.409	56.997	53.267	1.00	20.97	B	C
	ATOM	3330	CG	GLU	B	515	19.711	56.261	54.558	1.00	16.24	B	C
	ATOM	3331	CD	GLU	B	515	19.309	57.053	55.782	1.00	15.62	B	C
10	ATOM	3332	OE1	GLU	B	515	19.538	58.277	55.800	1.00	13.04	B	O
	ATOM	3333	OE2	GLU	B	515	18.766	56.449	56.724	1.00	13.53	B	O
	ATOM	3334	C	GLU	B	515	18.223	55.695	51.520	1.00	24.36	B	C
	ATOM	3335	O	GLU	B	515	17.580	54.833	52.124	1.00	24.47	B	O
	ATOM	3336	N	SER	B	516	17.779	56.294	50.422	1.00	26.82	B	N
15	ATOM	3337	CA	SER	B	516	16.478	55.952	49.853	1.00	28.63	B	C
	ATOM	3338	CB	SER	B	516	15.985	57.069	48.935	1.00	28.15	B	C
	ATOM	3339	OG	SER	B	516	16.686	57.061	47.704	1.00	27.60	B	O
	ATOM	3340	C	SER	B	516	16.531	54.647	49.072	1.00	30.36	B	C
	ATOM	3341	O	SER	B	516	15.500	54.101	48.702	1.00	29.43	B	O
20	ATOM	3342	N	LYS	B	517	17.738	54.150	48.822	1.00	34.67	B	N
	ATOM	3343	CA	LYS	B	517	17.908	52.908	48.084	1.00	39.14	B	C
	ATOM	3344	CB	LYS	B	517	19.387	52.532	48.009	1.00	38.10	B	C
	ATOM	3345	CG	LYS	B	517	19.921	52.402	46.596	1.00	37.17	B	C
	ATOM	3346	CD	LYS	B	517	21.318	52.992	46.460	1.00	36.45	B	C
25	ATOM	3347	CE	LYS	B	517	22.306	52.338	47.415	1.00	35.16	B	C
	ATOM	3348	NZ	LYS	B	517	23.165	51.335	46.739	1.00	36.69	B	N
	ATOM	3349	C	LYS	B	517	17.130	51.785	48.747	1.00	43.41	B	C
	ATOM	3350	O	LYS	B	517	16.850	51.829	49.942	1.00	44.81	B	O
	ATOM	3351	N	HIS	B	518	16.786	50.781	47.951	1.00	49.51	B	N
30	ATOM	3352	CA	HIS	B	518	16.035	49.609	48.402	1.00	54.56	B	C
	ATOM	3353	CB	HIS	B	518	15.285	49.021	47.217	1.00	61.44	B	C
	ATOM	3354	CG	HIS	B	518	16.178	48.732	46.049	1.00	67.89	B	C
	ATOM	3355	CD2	HIS	B	518	16.701	49.551	45.104	1.00	69.78	B	C
	ATOM	3356	ND1	HIS	B	518	16.708	47.480	45.808	1.00	70.52	B	N
35	ATOM	3357	CE1	HIS	B	518	17.520	47.541	44.767	1.00	71.98	B	C
	ATOM	3358	NE2	HIS	B	518	17.534	48.786	44.321	1.00	72.98	B	N
	ATOM	3359	C	HIS	B	518	17.016	48.559	48.913	1.00	54.79	B	C
	ATOM	3360	O	HIS	B	518	18.203	48.602	48.588	1.00	55.14	B	O
	ATOM	3361	N	SER	B	519	16.519	47.606	49.693	1.00	54.27	B	N
40	ATOM	3362	CA	SER	B	519	17.376	46.546	50.215	1.00	54.61	B	C
	ATOM	3363	CB	SER	B	519	17.683	46.780	51.696	1.00	55.11	B	C
	ATOM	3364	OG	SER	B	519	18.531	45.759	52.193	1.00	53.92	B	O
	ATOM	3365	C	SER	B	519	16.718	45.181	50.038	1.00	54.53	B	C
	ATOM	3366	O	SER	B	519	17.267	44.296	49.375	1.00	54.09	B	O
45	ATOM	3367	N	GLY	B	520	15.538	45.022	50.636	1.00	54.79	B	N
	ATOM	3368	CA	GLY	B	520	14.815	43.767	50.543	1.00	54.44	B	C
	ATOM	3369	C	GLY	B	520	15.201	42.770	51.620	1.00	53.95	B	C
	ATOM	3370	O	GLY	B	520	14.363	42.004	52.089	1.00	53.75	B	O
	ATOM	3371	N	HIS	B	521	16.472	42.783	52.013	1.00	53.82	B	N
50	ATOM	3372	CA	HIS	B	521	16.983	41.868	53.031	1.00	53.43	B	C
	ATOM	3373	CB	HIS	B	521	18.110	41.008	52.444	1.00	55.38	B	C
	ATOM	3374	CG	HIS	B	521	19.101	41.779	51.622	1.00	57.31	B	C
	ATOM	3375	CD2	HIS	B	521	19.958	42.773	51.956	1.00	58.35	B	C
	ATOM	3376	ND1	HIS	B	521	19.288	41.551	50.275	1.00	57.84	B	N
55	ATOM	3377	CE1	HIS	B	521	20.216	42.372	49.815	1.00	59.18	B	C
	ATOM	3378	NE2	HIS	B	521	20.639	43.123	50.815	1.00	59.80	B	N
	ATOM	3379	C	HIS	B	521	17.513	42.623	54.242	1.00	52.40	B	C
	ATOM	3380	O	HIS	B	521	18.411	43.449	54.111	1.00	53.36	B	O
	ATOM	3381	N	MET	B	522	16.967	42.351	55.422	1.00	49.93	B	N
60	ATOM	3382	CA	MET	B	522	17.451	43.038	56.612	1.00	48.21	B	C
	ATOM	3383	CB	MET	B	522	16.303	43.682	57.390	1.00	49.26	B	C
	ATOM	3384	CG	MET	B	522	16.708	45.006	58.024	1.00	50.99	B	C
	ATOM	3385	SD	MET	B	522	16.095	45.223	59.693	1.00	53.56	B	S
	ATOM	3386	CE	MET	B	522	14.322	45.311	59.376	1.00	53.16	B	C
65	ATOM	3387	C	MET	B	522	18.238	42.124	57.538	1.00	45.40	B	C
	ATOM	3388	O	MET	B	522	18.061	40.909	57.529	1.00	43.89	B	O
	ATOM	3389	N	PHE	B	523	19.111	42.730	58.333	1.00	42.68	B	N
	ATOM	3390	CA	PHE	B	523	19.946	41.998	59.276	1.00	39.85	B	C

	ATOM	3391	CB	PHE	B	523	20.663	42.980	60.205	1.00	37.34	B	C
	ATOM	3392	CG	PHE	B	523	21.832	42.384	60.924	1.00	33.84	B	C
	ATOM	3393	CD1	PHE	B	523	22.787	41.650	60.233	1.00	32.10	B	C
	ATOM	3394	CD2	PHE	B	523	21.983	42.562	62.293	1.00	32.53	B	C
5	ATOM	3395	CE1	PHE	B	523	23.878	41.100	60.895	1.00	31.77	B	C
	ATOM	3396	CE2	PHE	B	523	23.073	42.015	62.964	1.00	32.75	B	C
	ATOM	3397	CZ	PHE	B	523	24.023	41.283	62.263	1.00	31.23	B	C
	ATOM	3398	C	PHE	B	523	19.142	41.007	60.110	1.00	38.47	B	C
	ATOM	3399	O	PHE	B	523	18.106	41.353	60.673	1.00	37.96	B	O
10	ATOM	3400	N	SER	B	524	19.629	39.772	60.187	1.00	37.92	B	N
	ATOM	3401	CA	SER	B	524	18.954	38.739	60.959	1.00	38.29	B	C
	ATOM	3402	CB	SER	B	524	17.729	38.229	60.201	1.00	38.05	B	C
	ATOM	3403	OG	SER	B	524	17.969	36.946	59.647	1.00	39.23	B	O
	ATOM	3404	C	SER	B	524	19.876	37.572	61.269	1.00	38.10	B	C
15	ATOM	3405	O	SER	B	524	21.031	37.547	60.853	1.00	41.09	B	O
	ATOM	3406	N	SER	B	525	19.346	36.602	61.998	1.00	38.92	B	N
	ATOM	3407	CA	SER	B	525	20.093	35.412	62.382	1.00	40.11	B	C
	ATOM	3408	CB	SER	B	525	19.225	34.535	63.278	1.00	39.16	B	C
	ATOM	3409	OG	SER	B	525	19.899	34.230	64.480	1.00	43.15	B	O
20	ATOM	3410	C	SER	B	525	20.544	34.595	61.176	1.00	40.83	B	C
	ATOM	3411	O	SER	B	525	21.609	33.975	61.198	1.00	41.12	B	O
	ATOM	3412	N	LYS	B	526	19.725	34.596	60.129	1.00	40.70	B	N
	ATOM	3413	CA	LYS	B	526	20.022	33.842	58.920	1.00	41.10	B	C
	ATOM	3414	CB	LYS	B	526	18.736	33.598	58.126	1.00	43.70	B	C
25	ATOM	3415	CG	LYS	B	526	17.515	33.310	58.978	1.00	47.06	B	C
	ATOM	3416	CD	LYS	B	526	16.957	31.926	58.688	1.00	51.00	B	C
	ATOM	3417	CE	LYS	B	526	15.444	31.880	58.888	1.00	53.70	B	C
	ATOM	3418	NZ	LYS	B	526	14.754	31.065	57.840	1.00	54.98	B	N
	ATOM	3419	C	LYS	B	526	21.047	34.524	58.023	1.00	38.59	B	C
30	ATOM	3420	O	LYS	B	526	21.658	33.879	57.173	1.00	39.16	B	O
	ATOM	3421	N	SER	B	527	21.236	35.824	58.213	1.00	35.73	B	N
	ATOM	3422	CA	SER	B	527	22.185	36.577	57.401	1.00	34.38	B	C
	ATOM	3423	CB	SER	B	527	22.254	38.027	57.889	1.00	33.66	B	C
	ATOM	3424	OG	SER	B	527	20.994	38.663	57.771	1.00	30.75	B	O
35	ATOM	3425	C	SER	B	527	23.589	35.971	57.402	1.00	33.40	B	C
	ATOM	3426	O	SER	B	527	24.150	35.683	58.460	1.00	35.33	B	O
	ATOM	3427	N	PRO	B	528	24.170	35.754	56.209	1.00	31.67	B	N
	ATOM	3428	CD	PRO	B	528	23.587	35.996	54.879	1.00	30.39	B	C
	ATOM	3429	CA	PRO	B	528	25.519	35.181	56.124	1.00	31.35	B	C
40	ATOM	3430	CB	PRO	B	528	25.744	34.984	54.623	1.00	30.62	B	C
	ATOM	3431	CG	PRO	B	528	24.777	35.898	53.964	1.00	31.14	B	C
	ATOM	3432	C	PRO	B	528	26.568	36.105	56.729	1.00	31.08	B	C
	ATOM	3433	O	PRO	B	528	26.406	37.325	56.713	1.00	31.75	B	O
	ATOM	3434	N	LYS	B	529	27.635	35.525	57.272	1.00	30.12	B	N
45	ATOM	3435	CA	LYS	B	529	28.707	36.320	57.859	1.00	29.79	B	C
	ATOM	3436	CB	LYS	B	529	29.722	35.416	58.555	1.00	29.83	B	C
	ATOM	3437	CG	LYS	B	529	29.102	34.411	59.505	1.00	30.88	B	C
	ATOM	3438	CD	LYS	B	529	28.633	35.078	60.786	1.00	31.54	B	C
	ATOM	3439	CE	LYS	B	529	27.168	34.780	61.055	1.00	32.38	B	C
50	ATOM	3440	NZ	LYS	B	529	26.968	34.055	62.339	1.00	31.74	B	N
	ATOM	3441	C	LYS	B	529	29.372	37.056	56.705	1.00	29.65	B	C
	ATOM	3442	O	LYS	B	529	29.210	36.668	55.554	1.00	30.24	B	O
	ATOM	3443	N	PRO	B	530	30.120	38.133	56.996	1.00	29.06	B	N
	ATOM	3444	CD	PRO	B	530	30.353	38.693	58.340	1.00	28.57	B	C
55	ATOM	3445	CA	PRO	B	530	30.803	38.915	55.959	1.00	28.46	B	C
	ATOM	3446	CB	PRO	B	530	31.653	39.902	56.761	1.00	27.94	B	C
	ATOM	3447	CG	PRO	B	530	30.918	40.056	58.042	1.00	27.90	B	C
	ATOM	3448	C	PRO	B	530	31.644	38.099	54.972	1.00	29.52	B	C
	ATOM	3449	O	PRO	B	530	31.604	38.340	53.761	1.00	30.36	B	O
60	ATOM	3450	N	GLN	B	531	32.409	37.143	55.489	1.00	29.47	B	N
	ATOM	3451	CA	GLN	B	531	33.259	36.315	54.645	1.00	30.17	B	C
	ATOM	3452	CB	GLN	B	531	34.225	35.495	55.505	1.00	31.52	B	C
	ATOM	3453	CG	GLN	B	531	33.549	34.396	56.318	1.00	34.12	B	C
	ATOM	3454	CD	GLN	B	531	33.207	34.823	57.742	1.00	35.41	B	C
65	ATOM	3455	OE1	GLN	B	531	33.130	36.016	58.052	1.00	33.49	B	O
	ATOM	3456	NE2	GLN	B	531	32.998	33.841	58.617	1.00	36.67	B	N
	ATOM	3457	C	GLN	B	531	32.412	35.388	53.787	1.00	29.28	B	C
	ATOM	3458	O	GLN	B	531	32.855	34.920	52.744	1.00	30.98	B	O

	ATOM	3459	N	GLU	B	532	31.190	35.126	54.228	1.00	28.42	B	N
	ATOM	3460	CA	GLU	B	532	30.288	34.259	53.485	1.00	29.35	B	C
	ATOM	3461	CB	GLU	B	532	29.420	33.450	54.445	1.00	31.46	B	C
5	ATOM	3462	CG	GLU	B	532	30.181	32.396	55.238	1.00	38.52	B	C
	ATOM	3463	CD	GLU	B	532	29.500	32.057	56.561	1.00	44.38	B	C
	ATOM	3464	OE1	GLU	B	532	28.333	32.478	56.762	1.00	45.04	B	O
	ATOM	3465	OE2	GLU	B	532	30.131	31.371	57.400	1.00	47.11	B	O
	ATOM	3466	C	GLU	B	532	29.394	35.065	52.547	1.00	28.20	B	C
10	ATOM	3467	O	GLU	B	532	28.626	34.498	51.776	1.00	27.92	B	O
	ATOM	3468	N	TRP	B	533	29.486	36.390	52.626	1.00	27.97	B	N
	ATOM	3469	CA	TRP	B	533	28.694	37.266	51.770	1.00	26.31	B	C
	ATOM	3470	CB	TRP	B	533	28.423	38.600	52.470	1.00	25.94	B	C
	ATOM	3471	CG	TRP	B	533	27.409	39.452	51.764	1.00	25.40	B	C
	ATOM	3472	CD2	TRP	B	533	26.053	39.685	52.166	1.00	24.79	B	C
15	ATOM	3473	CE2	TRP	B	533	25.463	40.514	51.183	1.00	25.02	B	C
	ATOM	3474	CE3	TRP	B	533	25.278	39.273	53.261	1.00	25.86	B	C
	ATOM	3475	CD1	TRP	B	533	27.581	40.135	50.587	1.00	23.90	B	C
	ATOM	3476	NE1	TRP	B	533	26.418	40.771	50.235	1.00	22.57	B	N
	ATOM	3477	CZ2	TRP	B	533	24.128	40.941	51.263	1.00	24.60	B	C
20	ATOM	3478	CZ3	TRP	B	533	23.947	39.697	53.341	1.00	24.50	B	C
	ATOM	3479	CH2	TRP	B	533	23.389	40.523	52.345	1.00	25.40	B	C
	ATOM	3480	C	TRP	B	533	29.503	37.499	50.502	1.00	26.45	B	C
	ATOM	3481	O	TRP	B	533	30.255	38.469	50.401	1.00	25.64	B	O
	ATOM	3482	N	THR	B	534	29.352	36.590	49.544	1.00	26.99	B	N
25	ATOM	3483	CA	THR	B	534	30.082	36.665	48.284	1.00	28.40	B	C
	ATOM	3484	CB	THR	B	534	30.686	35.301	47.936	1.00	26.72	B	C
	ATOM	3485	OG1	THR	B	534	29.637	34.333	47.882	1.00	28.29	B	O
	ATOM	3486	CG2	THR	B	534	31.690	34.871	48.988	1.00	25.80	B	C
	ATOM	3487	C	THR	B	534	29.221	37.131	47.104	1.00	28.86	B	C
30	ATOM	3488	O	THR	B	534	29.749	37.431	46.034	1.00	26.28	B	O
	ATOM	3489	N	LEU	B	535	27.905	37.185	47.298	1.00	30.00	B	N
	ATOM	3490	CA	LEU	B	535	27.001	37.622	46.241	1.00	31.92	B	C
	ATOM	3491	CB	LEU	B	535	25.545	37.392	46.647	1.00	31.78	B	C
	ATOM	3492	CG	LEU	B	535	25.072	37.995	47.968	1.00	34.47	B	C
35	ATOM	3493	CD1	LEU	B	535	23.605	38.352	47.857	1.00	33.88	B	C
	ATOM	3494	CD2	LEU	B	535	25.282	36.997	49.103	1.00	39.04	B	C
	ATOM	3495	C	LEU	B	535	27.241	39.096	45.923	1.00	32.72	B	C
	ATOM	3496	O	LEU	B	535	27.970	39.787	46.637	1.00	33.26	B	O
	ATOM	3497	N	GLU	B	536	26.630	39.576	44.847	1.00	34.47	B	N
40	ATOM	3498	CA	GLU	B	536	26.820	40.957	44.430	1.00	35.92	B	C
	ATOM	3499	CB	GLU	B	536	26.596	41.074	42.927	1.00	38.80	B	C
	ATOM	3500	CG	GLU	B	536	27.666	41.877	42.222	1.00	45.46	B	C
	ATOM	3501	CD	GLU	B	536	27.514	41.841	40.716	1.00	47.70	B	C
	ATOM	3502	OE1	GLU	B	536	27.057	42.858	40.143	1.00	49.22	B	O
45	ATOM	3503	OE2	GLU	B	536	27.850	40.797	40.113	1.00	47.22	B	O
	ATOM	3504	C	GLU	B	536	25.940	41.967	45.149	1.00	34.51	B	C
	ATOM	3505	O	GLU	B	536	26.236	43.161	45.142	1.00	33.84	B	O
	ATOM	3506	N	LYS	B	537	24.859	41.488	45.757	1.00	33.07	B	N
	ATOM	3507	CA	LYS	B	537	23.937	42.356	46.482	1.00	32.25	B	C
50	ATOM	3508	CB	LYS	B	537	22.816	41.533	47.120	1.00	35.23	B	C
	ATOM	3509	CG	LYS	B	537	21.534	41.500	46.321	1.00	40.77	B	C
	ATOM	3510	CD	LYS	B	537	20.756	42.804	46.458	1.00	47.00	B	C
	ATOM	3511	CE	LYS	B	537	19.450	42.748	45.664	1.00	51.22	B	C
	ATOM	3512	NZ	LYS	B	537	19.013	44.087	45.158	1.00	54.35	B	N
55	ATOM	3513	C	LYS	B	537	24.658	43.124	47.579	1.00	29.44	B	C
	ATOM	3514	O	LYS	B	537	25.552	42.596	48.236	1.00	29.94	B	O
	ATOM	3515	N	ASN	B	538	24.268	44.376	47.769	1.00	27.31	B	N
	ATOM	3516	CA	ASN	B	538	24.862	45.206	48.810	1.00	24.19	B	C
	ATOM	3517	CB	ASN	B	538	24.665	46.690	48.479	1.00	22.79	B	C
60	ATOM	3518	CG	ASN	B	538	25.638	47.594	49.209	1.00	21.24	B	C
	ATOM	3519	OD1	ASN	B	538	26.777	47.215	49.481	1.00	21.03	B	O
	ATOM	3520	ND2	ASN	B	538	25.192	48.806	49.522	1.00	21.29	B	N
	ATOM	3521	C	ASN	B	538	24.126	44.871	50.105	1.00	21.89	B	C
	ATOM	3522	O	ASN	B	538	22.902	44.753	50.109	1.00	19.86	B	O
65	ATOM	3523	N	PRO	B	539	24.864	44.666	51.208	1.00	20.45	B	N
	ATOM	3524	CD	PRO	B	539	26.330	44.671	51.365	1.00	20.82	B	C
	ATOM	3525	CA	PRO	B	539	24.180	44.356	52.466	1.00	20.34	B	C
	ATOM	3526	CB	PRO	B	539	25.326	44.119	53.454	1.00	18.97	B	C

	ATOM	3527	CG	PRO B 539	26.534	43.851	52.596	1.00	18.88	B	C
	ATOM	3528	C	PRO B 539	23.281	45.534	52.884	1.00	20.23	B	C
	ATOM	3529	O	PRO B 539	23.475	46.657	52.426	1.00	18.89	B	O
	ATOM	3530	N	SER B 540	22.300	45.270	53.745	1.00	20.00	B	N
5	ATOM	3531	CA	SER B 540	21.387	46.308	54.220	1.00	19.19	B	C
	ATOM	3532	CB	SER B 540	20.212	45.671	54.967	1.00	19.06	B	C
	ATOM	3533	OG	SER B 540	20.603	45.203	56.242	1.00	19.80	B	O
	ATOM	3534	C	SER B 540	22.075	47.331	55.130	1.00	18.95	B	C
10	ATOM	3535	O	SER B 540	23.190	47.116	55.598	1.00	19.02	B	O
	ATOM	3536	N	TYR B 541	21.397	48.450	55.365	1.00	18.64	B	N
	ATOM	3537	CA	TYR B 541	21.917	49.520	56.208	1.00	18.32	B	C
	ATOM	3538	CB	TYR B 541	20.856	50.624	56.343	1.00	17.41	B	C
	ATOM	3539	CG	TYR B 541	21.266	51.818	57.190	1.00	17.53	B	C
15	ATOM	3540	CD1	TYR B 541	21.147	51.786	58.582	1.00	16.93	B	C
	ATOM	3541	CE1	TYR B 541	21.508	52.886	59.361	1.00	17.82	B	C
	ATOM	3542	CD2	TYR B 541	21.758	52.983	56.599	1.00	16.75	B	C
	ATOM	3543	CE2	TYR B 541	22.121	54.089	57.366	1.00	16.13	B	C
	ATOM	3544	CZ	TYR B 541	21.994	54.034	58.747	1.00	18.72	B	C
20	ATOM	3545	OH	TYR B 541	22.345	55.119	59.512	1.00	14.67	B	O
	ATOM	3546	C	TYR B 541	22.304	48.991	57.589	1.00	18.76	B	C
	ATOM	3547	O	TYR B 541	23.376	49.305	58.112	1.00	18.61	B	O
	ATOM	3548	N	THR B 542	21.423	48.184	58.172	1.00	18.96	B	N
	ATOM	3549	CA	THR B 542	21.654	47.616	59.495	1.00	19.77	B	C
25	ATOM	3550	CB	THR B 542	20.378	46.912	60.002	1.00	20.28	B	C
	ATOM	3551	OG1	THR B 542	19.319	47.876	60.077	1.00	19.56	B	O
	ATOM	3552	CG2	THR B 542	20.598	46.304	61.383	1.00	19.50	B	C
	ATOM	3553	C	THR B 542	22.847	46.657	59.519	1.00	19.30	B	C
	ATOM	3554	O	THR B 542	23.603	46.617	60.496	1.00	19.03	B	O
30	ATOM	3555	N	TYR B 543	23.020	45.896	58.442	1.00	17.76	B	N
	ATOM	3556	CA	TYR B 543	24.144	44.967	58.325	1.00	17.05	B	C
	ATOM	3557	CB	TYR B 543	24.064	44.235	56.982	1.00	17.37	B	C
	ATOM	3558	CG	TYR B 543	25.002	43.063	56.829	1.00	15.50	B	C
	ATOM	3559	CD1	TYR B 543	26.345	43.254	56.499	1.00	14.90	B	C
35	ATOM	3560	CE1	TYR B 543	27.207	42.168	56.329	1.00	15.31	B	C
	ATOM	3561	CD2	TYR B 543	24.542	41.759	56.988	1.00	15.81	B	C
	ATOM	3562	CE2	TYR B 543	25.393	40.669	56.822	1.00	17.68	B	C
	ATOM	3563	CZ	TYR B 543	26.723	40.882	56.492	1.00	17.39	B	C
	ATOM	3564	OH	TYR B 543	27.556	39.802	56.324	1.00	18.54	B	O
40	ATOM	3565	C	TYR B 543	25.437	45.783	58.404	1.00	17.72	B	C
	ATOM	3566	O	TYR B 543	26.351	45.481	59.183	1.00	17.93	B	O
	ATOM	3567	N	TYR B 544	25.503	46.831	57.590	1.00	17.66	B	N
	ATOM	3568	CA	TYR B 544	26.666	47.711	57.574	1.00	18.80	B	C
	ATOM	3569	CB	TYR B 544	26.443	48.863	56.578	1.00	17.87	B	C
	ATOM	3570	CG	TYR B 544	26.965	48.629	55.175	1.00	18.91	B	C
45	ATOM	3571	CD1	TYR B 544	26.154	48.061	54.191	1.00	18.39	B	C
	ATOM	3572	CE1	TYR B 544	26.621	47.887	52.882	1.00	19.12	B	C
	ATOM	3573	CD2	TYR B 544	28.260	49.015	54.818	1.00	18.47	B	C
	ATOM	3574	CE2	TYR B 544	28.734	48.846	53.519	1.00	19.08	B	C
50	ATOM	3575	CZ	TYR B 544	27.910	48.286	52.557	1.00	19.54	B	C
	ATOM	3576	OH	TYR B 544	28.369	48.149	51.267	1.00	19.95	B	O
	ATOM	3577	C	TYR B 544	26.873	48.294	58.986	1.00	19.63	B	C
	ATOM	3578	O	TYR B 544	27.976	48.248	59.539	1.00	19.04	B	O
	ATOM	3579	N	ALA B 545	25.795	48.836	59.556	1.00	19.50	B	N
55	ATOM	3580	CA	ALA B 545	25.827	49.450	60.878	1.00	19.09	B	C
	ATOM	3581	CB	ALA B 545	24.438	49.958	61.242	1.00	18.51	B	C
	ATOM	3582	C	ALA B 545	26.345	48.522	61.975	1.00	19.89	B	C
	ATOM	3583	O	ALA B 545	27.223	48.902	62.754	1.00	21.10	B	O
	ATOM	3584	N	TYR B 546	25.815	47.307	62.039	1.00	20.60	B	N
60	ATOM	3585	CA	TYR B 546	26.254	46.374	63.065	1.00	20.91	B	C
	ATOM	3586	CB	TYR B 546	25.514	45.038	62.945	1.00	22.25	B	C
	ATOM	3587	CG	TYR B 546	26.046	44.000	63.913	1.00	25.12	B	C
	ATOM	3588	CD1	TYR B 546	25.625	43.981	65.245	1.00	25.95	B	C
	ATOM	3589	CE1	TYR B 546	26.185	43.101	66.166	1.00	24.90	B	C
65	ATOM	3590	CD2	TYR B 546	27.036	43.099	63.524	1.00	25.41	B	C
	ATOM	3591	CE2	TYR B 546	27.602	42.215	64.437	1.00	26.31	B	C
	ATOM	3592	CZ	TYR B 546	27.175	42.226	65.756	1.00	27.40	B	C
	ATOM	3593	OH	TYR B 546	27.763	41.380	66.668	1.00	28.61	B	O
	ATOM	3594	C	TYR B 546	27.756	46.110	63.033	1.00	20.26	B	C

	ATOM	3595	O	TYR	B	546	28.443	46.217	64.056	1.00	20.21	B	O
	ATOM	3596	N	TYR	B	547	28.268	45.775	61.854	1.00	18.88	B	N
	ATOM	3597	CA	TYR	B	547	29.679	45.461	61.713	1.00	17.66	B	C
5	ATOM	3598	CB	TYR	B	547	29.905	44.746	60.381	1.00	16.80	B	C
	ATOM	3599	CG	TYR	B	547	29.428	43.309	60.459	1.00	16.37	B	C
	ATOM	3600	CD1	TYR	B	547	30.133	42.368	61.209	1.00	15.74	B	C
	ATOM	3601	CE1	TYR	B	547	29.659	41.072	61.369	1.00	14.75	B	C
	ATOM	3602	CD2	TYR	B	547	28.231	42.909	59.861	1.00	14.78	B	C
10	ATOM	3603	CE2	TYR	B	547	27.748	41.605	60.017	1.00	13.87	B	C
	ATOM	3604	CZ	TYR	B	547	28.471	40.696	60.777	1.00	14.55	B	C
	ATOM	3605	OH	TYR	B	547	28.019	39.407	60.958	1.00	15.38	B	O
	ATOM	3606	C	TYR	B	547	30.619	46.641	61.898	1.00	18.72	B	C
	ATOM	3607	O	TYR	B	547	31.795	46.466	62.244	1.00	17.88	B	O
	ATOM	3608	N	MET	B	548	30.108	47.846	61.686	1.00	18.27	B	N
15	ATOM	3609	CA	MET	B	548	30.929	49.021	61.896	1.00	20.09	B	C
	ATOM	3610	CB	MET	B	548	30.337	50.215	61.157	1.00	21.96	B	C
	ATOM	3611	CG	MET	B	548	30.870	50.356	59.745	1.00	22.00	B	C
	ATOM	3612	SD	MET	B	548	30.663	52.019	59.130	1.00	31.62	B	S
	ATOM	3613	CE	MET	B	548	32.191	52.817	59.730	1.00	25.34	B	C
20	ATOM	3614	C	MET	B	548	30.947	49.269	63.408	1.00	21.29	B	C
	ATOM	3615	O	MET	B	548	31.965	49.662	63.981	1.00	20.84	B	O
	ATOM	3616	N	TYR	B	549	29.812	49.013	64.053	1.00	21.06	B	N
	ATOM	3617	CA	TYR	B	549	29.705	49.194	65.494	1.00	21.79	B	C
25	ATOM	3618	CB	TYR	B	549	28.250	49.018	65.945	1.00	21.03	B	C
	ATOM	3619	CG	TYR	B	549	28.087	48.871	67.445	1.00	23.02	B	C
	ATOM	3620	CD1	TYR	B	549	28.092	49.990	68.275	1.00	22.42	B	C
	ATOM	3621	CE1	TYR	B	549	27.981	49.866	69.656	1.00	23.39	B	C
	ATOM	3622	CD2	TYR	B	549	27.962	47.611	68.039	1.00	22.07	B	C
	ATOM	3623	CE2	TYR	B	549	27.851	47.475	69.422	1.00	22.10	B	C
30	ATOM	3624	CZ	TYR	B	549	27.862	48.611	70.225	1.00	23.46	B	C
	ATOM	3625	OH	TYR	B	549	27.766	48.500	71.594	1.00	20.03	B	O
	ATOM	3626	C	TYR	B	549	30.592	48.171	66.205	1.00	21.49	B	C
	ATOM	3627	O	TYR	B	549	31.360	48.517	67.102	1.00	22.09	B	O
	ATOM	3628	N	ALA	B	550	30.476	46.913	65.785	1.00	21.79	B	N
35	ATOM	3629	CA	ALA	B	550	31.236	45.808	66.364	1.00	21.79	B	C
	ATOM	3630	CB	ALA	B	550	30.871	44.506	65.652	1.00	20.27	B	C
	ATOM	3631	C	ALA	B	550	32.750	46.018	66.334	1.00	22.03	B	C
	ATOM	3632	O	ALA	B	550	33.432	45.793	67.332	1.00	20.53	B	O
	ATOM	3633	N	ASN	B	551	33.278	46.447	65.191	1.00	22.53	B	N
40	ATOM	3634	CA	ASN	B	551	34.715	46.673	65.060	1.00	22.48	B	C
	ATOM	3635	CB	ASN	B	551	35.096	46.781	63.578	1.00	22.24	B	C
	ATOM	3636	CG	ASN	B	551	35.237	45.424	62.916	1.00	19.76	B	C
	ATOM	3637	OD1	ASN	B	551	34.322	44.946	62.247	1.00	20.41	B	O
	ATOM	3638	ND2	ASN	B	551	36.385	44.793	63.108	1.00	18.36	B	N
45	ATOM	3639	C	ASN	B	551	35.190	47.918	65.811	1.00	22.29	B	C
	ATOM	3640	O	ASN	B	551	36.295	47.944	66.346	1.00	23.82	B	O
	ATOM	3641	N	ILE	B	552	34.359	48.953	65.847	1.00	21.95	B	N
	ATOM	3642	CA	ILE	B	552	34.720	50.180	66.547	1.00	20.52	B	C
	ATOM	3643	CB	ILE	B	552	33.727	51.330	66.203	1.00	17.70	B	C
50	ATOM	3644	CG2	ILE	B	552	33.883	52.492	67.193	1.00	14.96	B	C
	ATOM	3645	CG1	ILE	B	552	34.003	51.830	64.772	1.00	17.58	B	C
	ATOM	3646	CD1	ILE	B	552	32.956	52.772	64.219	1.00	13.36	B	C
	ATOM	3647	C	ILE	B	552	34.742	49.923	68.057	1.00	20.67	B	C
	ATOM	3648	O	ILE	B	552	35.584	50.456	68.782	1.00	20.06	B	O
55	ATOM	3649	N	MET	B	553	33.823	49.088	68.523	1.00	20.97	B	N
	ATOM	3650	CA	MET	B	553	33.747	48.757	69.941	1.00	23.21	B	C
	ATOM	3651	CB	MET	B	553	32.528	47.876	70.203	1.00	23.99	B	C
	ATOM	3652	CG	MET	B	553	32.514	47.258	71.576	1.00	26.83	B	C
	ATOM	3653	SD	MET	B	553	31.275	45.981	71.689	1.00	30.09	B	S
60	ATOM	3654	CE	MET	B	553	32.252	44.656	72.315	1.00	32.55	B	C
	ATOM	3655	C	MET	B	553	35.019	48.041	70.404	1.00	22.71	B	C
	ATOM	3656	O	MET	B	553	35.639	48.430	71.399	1.00	23.16	B	O
	ATOM	3657	N	VAL	B	554	35.406	46.995	69.676	1.00	21.89	B	N
	ATOM	3658	CA	VAL	B	554	36.604	46.240	70.013	1.00	20.77	B	C
65	ATOM	3659	CB	VAL	B	554	36.774	45.009	69.089	1.00	20.68	B	C
	ATOM	3660	CG1	VAL	B	554	38.061	44.261	69.441	1.00	22.03	B	C
	ATOM	3661	CG2	VAL	B	554	35.582	44.082	69.226	1.00	18.30	B	C
	ATOM	3662	C	VAL	B	554	37.832	47.145	69.891	1.00	20.70	B	C

	ATOM	3663	O	VAL	B	554	38.727	47.107	70.728	1.00	22.90	B	O
	ATOM	3664	N	LEU	B	555	37.862	47.973	68.855	1.00	19.28	B	N
	ATOM	3665	CA	LEU	B	555	38.981	48.880	68.636	1.00	19.46	B	C
	ATOM	3666	CB	LEU	B	555	38.799	49.620	67.303	1.00	18.85	B	C
5	ATOM	3667	CG	LEU	B	555	39.815	50.708	66.938	1.00	19.57	B	C
	ATOM	3668	CD1	LEU	B	555	41.208	50.115	66.793	1.00	19.52	B	C
	ATOM	3669	CD2	LEU	B	555	39.390	51.363	65.633	1.00	18.83	B	C
	ATOM	3670	C	LEU	B	555	39.103	49.891	69.773	1.00	18.84	B	C
	ATOM	3671	O	LEU	B	555	40.203	50.245	70.191	1.00	17.34	B	O
10	ATOM	3672	N	ASN	B	556	37.959	50.362	70.261	1.00	20.25	B	N
	ATOM	3673	CA	ASN	B	556	37.927	51.336	71.342	1.00	19.57	B	C
	ATOM	3674	CB	ASN	B	556	36.507	51.886	71.502	1.00	18.53	B	C
	ATOM	3675	CG	ASN	B	556	36.189	52.995	70.497	1.00	18.58	B	C
	ATOM	3676	OD1	ASN	B	556	37.090	53.578	69.884	1.00	15.73	B	O
15	ATOM	3677	ND2	ASN	B	556	34.903	53.295	70.333	1.00	14.09	B	N
	ATOM	3678	C	ASN	B	556	38.412	50.719	72.655	1.00	19.40	B	C
	ATOM	3679	O	ASN	B	556	39.074	51.382	73.447	1.00	17.65	B	O
	ATOM	3680	N	SER	B	557	38.086	49.450	72.877	1.00	21.14	B	N
20	ATOM	3681	CA	SER	B	557	38.513	48.751	74.083	1.00	24.69	B	C
	ATOM	3682	CB	SER	B	557	37.931	47.340	74.126	1.00	24.57	B	C
	ATOM	3683	OG	SER	B	557	36.528	47.382	74.309	1.00	28.76	B	O
	ATOM	3684	C	SER	B	557	40.027	48.654	74.076	1.00	26.40	B	C
	ATOM	3685	O	SER	B	557	40.690	48.944	75.073	1.00	28.99	B	O
	ATOM	3686	N	LEU	B	558	40.567	48.243	72.937	1.00	26.57	B	N
25	ATOM	3687	CA	LEU	B	558	42.004	48.104	72.778	1.00	26.68	B	C
	ATOM	3688	CB	LEU	B	558	42.321	47.543	71.388	1.00	26.27	B	C
	ATOM	3689	CG	LEU	B	558	43.798	47.448	71.005	1.00	28.47	B	C
	ATOM	3690	CD1	LEU	B	558	44.545	46.628	72.045	1.00	28.67	B	C
	ATOM	3691	CD2	LEU	B	558	43.929	46.809	69.636	1.00	28.89	B	C
30	ATOM	3692	C	LEU	B	558	42.738	49.429	72.985	1.00	26.76	B	C
	ATOM	3693	O	LEU	B	558	43.704	49.490	73.739	1.00	29.13	B	O
	ATOM	3694	N	ARG	B	559	42.276	50.486	72.329	1.00	25.75	B	N
	ATOM	3695	CA	ARG	B	559	42.920	51.792	72.440	1.00	25.17	B	C
	ATOM	3696	CB	ARG	B	559	42.379	52.740	71.363	1.00	22.82	B	C
35	ATOM	3697	CG	ARG	B	559	43.102	52.607	70.022	1.00	21.54	B	C
	ATOM	3698	CD	ARG	B	559	42.491	53.496	68.955	1.00	17.67	B	C
	ATOM	3699	NE	ARG	B	559	43.169	54.783	68.843	1.00	15.45	B	N
	ATOM	3700	CZ	ARG	B	559	44.330	54.964	68.223	1.00	16.95	B	C
	ATOM	3701	NH1	ARG	B	559	44.945	53.934	67.658	1.00	17.97	B	N
40	ATOM	3702	NH2	ARG	B	559	44.871	56.173	68.154	1.00	14.12	B	N
	ATOM	3703	C	ARG	B	559	42.763	52.428	73.813	1.00	26.58	B	C
	ATOM	3704	O	ARG	B	559	43.636	53.176	74.262	1.00	26.33	B	O
	ATOM	3705	N	LYS	B	560	41.647	52.142	74.478	1.00	28.73	B	N
	ATOM	3706	CA	LYS	B	560	41.402	52.688	75.808	1.00	30.60	B	C
45	ATOM	3707	CB	LYS	B	560	40.020	52.259	76.318	1.00	30.82	B	C
	ATOM	3708	CG	LYS	B	560	39.731	52.636	77.769	1.00	32.36	B	C
	ATOM	3709	CD	LYS	B	560	39.291	54.089	77.900	1.00	35.24	B	C
	ATOM	3710	CE	LYS	B	560	38.817	54.413	79.319	1.00	36.11	B	C
	ATOM	3711	NZ	LYS	B	560	37.753	55.469	79.357	1.00	34.73	B	N
50	ATOM	3712	C	LYS	B	560	42.490	52.151	76.732	1.00	31.08	B	C
	ATOM	3713	O	LYS	B	560	43.156	52.910	77.436	1.00	31.95	B	O
	ATOM	3714	N	GLU	B	561	42.673	50.837	76.704	1.00	31.70	B	N
	ATOM	3715	CA	GLU	B	561	43.677	50.185	77.526	1.00	34.14	B	C
	ATOM	3716	CB	GLU	B	561	43.604	48.674	77.329	1.00	37.38	B	C
55	ATOM	3717	CG	GLU	B	561	42.785	47.964	78.394	1.00	44.15	B	C
	ATOM	3718	CD	GLU	B	561	42.823	46.453	78.243	1.00	48.94	B	C
	ATOM	3719	OE1	GLU	B	561	43.902	45.910	77.908	1.00	51.51	B	O
	ATOM	3720	OE2	GLU	B	561	41.773	45.806	78.459	1.00	51.09	B	O
	ATOM	3721	C	GLU	B	561	45.096	50.678	77.236	1.00	33.16	B	C
60	ATOM	3722	O	GLU	B	561	45.925	50.740	78.142	1.00	35.62	B	O
	ATOM	3723	N	ARG	B	562	45.379	51.026	75.983	1.00	30.50	B	N
	ATOM	3724	CA	ARG	B	562	46.707	51.509	75.614	1.00	28.20	B	C
	ATOM	3725	CB	ARG	B	562	46.940	51.363	74.105	1.00	27.96	B	C
	ATOM	3726	CG	ARG	B	562	46.786	49.944	73.562	1.00	27.78	B	C
65	ATOM	3727	CD	ARG	B	562	47.966	49.552	72.685	1.00	28.68	B	C
	ATOM	3728	NE	ARG	B	562	49.246	49.832	73.335	1.00	29.96	B	N
	ATOM	3729	CZ	ARG	B	562	50.435	49.730	72.745	1.00	32.70	B	C
	ATOM	3730	NH1	ARG	B	562	50.532	49.352	71.477	1.00	33.55	B	N

	ATOM	3731	NH2	ARG	B	562	51.535	50.011	73.427	1.00	34.51	B	N
	ATOM	3732	C	ARG	B	562	46.861	52.971	76.001	1.00	27.58	B	C
	ATOM	3733	O	ARG	B	562	47.951	53.531	75.929	1.00	27.60	B	O
5	ATOM	3734	N	GLY	B	563	45.760	53.588	76.412	1.00	27.63	B	N
	ATOM	3735	CA	GLY	B	563	45.805	54.988	76.784	1.00	26.88	B	C
	ATOM	3736	C	GLY	B	563	45.693	55.892	75.566	1.00	28.10	B	C
	ATOM	3737	O	GLY	B	563	46.044	57.078	75.626	1.00	29.09	B	O
	ATOM	3738	N	MET	B	564	45.201	55.333	74.458	1.00	26.66	B	N
10	ATOM	3739	CA	MET	B	564	45.042	56.084	73.213	1.00	25.17	B	C
	ATOM	3740	CB	MET	B	564	45.344	55.184	72.011	1.00	24.47	B	C
	ATOM	3741	CG	MET	B	564	46.812	54.852	71.826	1.00	25.52	B	C
	ATOM	3742	SD	MET	B	564	47.063	53.372	70.820	1.00	26.52	B	S
	ATOM	3743	CE	MET	B	564	48.702	53.682	70.204	1.00	26.56	B	C
	ATOM	3744	C	MET	B	564	43.623	56.633	73.094	1.00	24.00	B	C
15	ATOM	3745	O	MET	B	564	42.753	56.287	73.890	1.00	24.84	B	O
	ATOM	3746	N	ASN	B	565	43.391	57.486	72.100	1.00	22.62	B	N
	ATOM	3747	CA	ASN	B	565	42.067	58.067	71.893	1.00	21.36	B	C
	ATOM	3748	CB	ASN	B	565	42.152	59.296	70.972	1.00	21.82	B	C
	ATOM	3749	CG	ASN	B	565	42.771	58.986	69.616	1.00	21.34	B	C
20	ATOM	3750	OD1	ASN	B	565	43.902	58.514	69.524	1.00	21.84	B	O
	ATOM	3751	ND2	ASN	B	565	42.025	59.263	68.554	1.00	20.03	B	N
	ATOM	3752	C	ASN	B	565	41.109	57.037	71.308	1.00	20.02	B	C
	ATOM	3753	O	ASN	B	565	41.537	56.054	70.711	1.00	20.66	B	O
	ATOM	3754	N	THR	B	566	39.813	57.249	71.505	1.00	18.47	B	N
25	ATOM	3755	CA	THR	B	566	38.812	56.331	70.989	1.00	16.81	B	C
	ATOM	3756	CB	THR	B	566	37.928	55.766	72.128	1.00	17.38	B	C
	ATOM	3757	OG1	THR	B	566	37.344	56.842	72.868	1.00	18.40	B	O
	ATOM	3758	CG2	THR	B	566	38.763	54.913	73.068	1.00	16.87	B	C
	ATOM	3759	C	THR	B	566	37.956	57.063	69.954	1.00	16.06	B	C
30	ATOM	3760	O	THR	B	566	38.074	58.277	69.802	1.00	17.41	B	O
	ATOM	3761	N	PHE	B	567	37.094	56.336	69.247	1.00	15.55	B	N
	ATOM	3762	CA	PHE	B	567	36.275	56.949	68.202	1.00	14.50	B	C
	ATOM	3763	CB	PHE	B	567	36.652	56.375	66.827	1.00	13.97	B	C
	ATOM	3764	CG	PHE	B	567	38.132	56.245	66.603	1.00	10.94	B	C
35	ATOM	3765	CD1	PHE	B	567	38.902	57.359	66.283	1.00	12.04	B	C
	ATOM	3766	CD2	PHE	B	567	38.758	55.014	66.731	1.00	10.99	B	C
	ATOM	3767	CE1	PHE	B	567	40.280	57.249	66.096	1.00	10.96	B	C
	ATOM	3768	CE2	PHE	B	567	40.138	54.890	66.547	1.00	11.68	B	C
	ATOM	3769	CZ	PHE	B	567	40.899	56.007	66.230	1.00	10.30	B	C
40	ATOM	3770	C	PHE	B	567	34.776	56.805	68.378	1.00	14.49	B	C
	ATOM	3771	O	PHE	B	567	34.292	55.836	68.956	1.00	14.21	B	O
	ATOM	3772	N	LEU	B	568	34.044	57.781	67.856	1.00	14.30	B	N
	ATOM	3773	CA	LEU	B	568	32.594	57.760	67.926	1.00	15.02	B	C
	ATOM	3774	CB	LEU	B	568	32.059	59.171	68.196	1.00	13.98	B	C
45	ATOM	3775	CG	LEU	B	568	32.445	59.839	69.521	1.00	14.58	B	C
	ATOM	3776	CD1	LEU	B	568	31.774	61.188	69.609	1.00	12.34	B	C
	ATOM	3777	CD2	LEU	B	568	32.019	58.973	70.696	1.00	12.24	B	C
	ATOM	3778	C	LEU	B	568	32.052	57.257	66.591	1.00	15.69	B	C
	ATOM	3779	O	LEU	B	568	32.735	57.338	65.571	1.00	16.80	B	O
50	ATOM	3780	N	PHE	B	569	30.835	56.720	66.606	1.00	15.75	B	N
	ATOM	3781	CA	PHE	B	569	30.182	56.245	65.393	1.00	14.11	B	C
	ATOM	3782	CB	PHE	B	569	29.651	54.819	65.597	1.00	14.41	B	C
	ATOM	3783	CG	PHE	B	569	28.967	54.232	64.386	1.00	13.95	B	C
	ATOM	3784	CD1	PHE	B	569	29.473	54.443	63.103	1.00	15.56	B	C
55	ATOM	3785	CD2	PHE	B	569	27.811	53.468	64.530	1.00	13.48	B	C
	ATOM	3786	CE1	PHE	B	569	28.830	53.897	61.975	1.00	13.25	B	C
	ATOM	3787	CE2	PHE	B	569	27.162	52.919	63.417	1.00	14.36	B	C
	ATOM	3788	CZ	PHE	B	569	27.675	53.136	62.134	1.00	13.09	B	C
	ATOM	3789	C	PHE	B	569	29.035	57.231	65.157	1.00	15.17	B	C
60	ATOM	3790	O	PHE	B	569	28.087	57.286	65.943	1.00	15.24	B	O
	ATOM	3791	N	ARG	B	570	29.143	58.028	64.093	1.00	14.79	B	N
	ATOM	3792	CA	ARG	B	570	28.136	59.040	63.750	1.00	13.97	B	C
	ATOM	3793	CB	ARG	B	570	28.711	60.436	64.019	1.00	12.55	B	C
	ATOM	3794	CG	ARG	B	570	29.358	60.586	65.390	1.00	11.75	B	C
65	ATOM	3795	CD	ARG	B	570	30.281	61.787	65.463	1.00	9.43	B	C
	ATOM	3796	NE	ARG	B	570	29.620	63.020	65.042	1.00	8.17	B	N
	ATOM	3797	CZ	ARG	B	570	30.173	64.230	65.101	1.00	8.32	B	C
	ATOM	3798	NH1	ARG	B	570	31.404	64.383	65.567	1.00	8.84	B	N

	ATOM	3799	NH2	ARG	B	570	29.504	65.293	64.672	1.00	6.62	B	N
	ATOM	3800	C	ARG	B	570	27.722	58.920	62.277	1.00	14.51	B	C
	ATOM	3801	O	ARG	B	570	28.177	59.684	61.426	1.00	13.61	B	O
5	ATOM	3802	N	PRO	B	571	26.823	57.971	61.964	1.00	14.97	B	N
	ATOM	3803	CD	PRO	B	571	26.156	57.054	62.910	1.00	14.29	B	C
	ATOM	3804	CA	PRO	B	571	26.359	57.749	60.589	1.00	13.57	B	C
	ATOM	3805	CB	PRO	B	571	25.835	56.322	60.630	1.00	12.39	B	C
	ATOM	3806	CG	PRO	B	571	25.254	56.218	62.007	1.00	11.78	B	C
10	ATOM	3807	C	PRO	B	571	25.282	58.700	60.080	1.00	15.10	B	C
	ATOM	3808	O	PRO	B	571	24.624	59.397	60.857	1.00	15.40	B	O
	ATOM	3809	N	HIS	B	572	25.122	58.728	58.760	1.00	14.46	B	N
	ATOM	3810	CA	HIS	B	572	24.082	59.528	58.136	1.00	13.08	B	C
	ATOM	3811	CB	HIS	B	572	24.313	59.623	56.630	1.00	13.41	B	C
	ATOM	3812	CG	HIS	B	572	25.159	60.790	56.215	1.00	11.30	B	C
15	ATOM	3813	CD2	HIS	B	572	24.925	61.792	55.336	1.00	11.36	B	C
	ATOM	3814	ND1	HIS	B	572	26.421	61.009	56.726	1.00	10.43	B	N
	ATOM	3815	CE1	HIS	B	572	26.928	62.102	56.177	1.00	13.89	B	C
	ATOM	3816	NE2	HIS	B	572	26.038	62.594	55.328	1.00	10.19	B	N
20	ATOM	3817	C	HIS	B	572	22.887	58.631	58.432	1.00	12.79	B	C
	ATOM	3818	O	HIS	B	572	22.976	57.418	58.252	1.00	13.14	B	O
	ATOM	3819	N	CYS	B	573	21.783	59.204	58.893	1.00	11.52	B	N
	ATOM	3820	CA	CYS	B	573	20.637	58.376	59.242	1.00	12.52	B	C
	ATOM	3821	CB	CYS	B	573	20.864	57.764	60.627	1.00	12.75	B	C
25	ATOM	3822	SG	CYS	B	573	19.616	56.575	61.166	1.00	14.82	B	S
	ATOM	3823	C	CYS	B	573	19.331	59.146	59.240	1.00	13.76	B	C
	ATOM	3824	O	CYS	B	573	19.257	60.275	59.739	1.00	13.63	B	O
	ATOM	3825	N	GLY	B	574	18.301	58.529	58.667	1.00	14.08	B	N
	ATOM	3826	CA	GLY	B	574	16.991	59.154	58.622	1.00	14.00	B	C
30	ATOM	3827	C	GLY	B	574	16.743	60.176	57.528	1.00	15.22	B	C
	ATOM	3828	O	GLY	B	574	15.714	60.850	57.544	1.00	15.22	B	O
	ATOM	3829	N	GLU	B	575	17.674	60.316	56.590	1.00	16.47	B	N
	ATOM	3830	CA	GLU	B	575	17.489	61.266	55.493	1.00	16.74	B	C
	ATOM	3831	CB	GLU	B	575	18.763	61.398	54.673	1.00	16.43	B	C
35	ATOM	3832	CG	GLU	B	575	18.731	62.549	53.695	1.00	16.49	B	C
	ATOM	3833	CD	GLU	B	575	20.027	62.673	52.932	1.00	15.85	B	C
	ATOM	3834	OE1	GLU	B	575	20.344	63.783	52.464	1.00	21.33	B	O
	ATOM	3835	OE2	GLU	B	575	20.734	61.657	52.799	1.00	15.07	B	O
	ATOM	3836	C	GLU	B	575	16.369	60.746	54.605	1.00	16.98	B	C
40	ATOM	3837	O	GLU	B	575	15.618	61.523	54.023	1.00	16.59	B	O
	ATOM	3838	N	VAL	B	576	16.276	59.422	54.515	1.00	17.20	B	N
	ATOM	3839	CA	VAL	B	576	15.249	58.739	53.734	1.00	20.30	B	C
	ATOM	3840	CB	VAL	B	576	15.401	58.978	52.217	1.00	22.68	B	C
	ATOM	3841	CG1	VAL	B	576	14.550	60.168	51.791	1.00	27.36	B	C
45	ATOM	3842	CG2	VAL	B	576	16.858	59.200	51.866	1.00	27.18	B	C
	ATOM	3843	C	VAL	B	576	15.388	57.250	53.995	1.00	20.22	B	C
	ATOM	3844	O	VAL	B	576	16.225	56.835	54.791	1.00	21.34	B	O
	ATOM	3845	N	GLY	B	577	14.571	56.443	53.330	1.00	19.85	B	N
	ATOM	3846	CA	GLY	B	577	14.661	55.012	53.537	1.00	19.36	B	C
50	ATOM	3847	C	GLY	B	577	13.774	54.522	54.664	1.00	19.91	B	C
	ATOM	3848	O	GLY	B	577	12.889	55.243	55.120	1.00	17.64	B	O
	ATOM	3849	N	ALA	B	578	14.024	53.291	55.112	1.00	19.71	B	N
	ATOM	3850	CA	ALA	B	578	13.251	52.659	56.179	1.00	20.78	B	C
	ATOM	3851	CB	ALA	B	578	13.549	51.163	56.207	1.00	19.55	B	C
55	ATOM	3852	C	ALA	B	578	13.486	53.259	57.565	1.00	21.39	B	C
	ATOM	3853	O	ALA	B	578	14.558	53.785	57.857	1.00	20.97	B	O
	ATOM	3854	N	LEU	B	579	12.470	53.169	58.417	1.00	23.82	B	N
	ATOM	3855	CA	LEU	B	579	12.561	53.692	59.782	1.00	25.78	B	C
	ATOM	3856	CB	LEU	B	579	11.204	53.617	60.479	1.00	25.26	B	C
60	ATOM	3857	CG	LEU	B	579	10.230	54.760	60.226	1.00	24.73	B	C
	ATOM	3858	CD1	LEU	B	579	8.905	54.431	60.871	1.00	25.72	B	C
	ATOM	3859	CD2	LEU	B	579	10.796	56.051	60.783	1.00	27.93	B	C
	ATOM	3860	C	LEU	B	579	13.565	52.881	60.586	1.00	25.66	B	C
	ATOM	3861	O	LEU	B	579	14.199	53.393	61.508	1.00	26.10	B	O
65	ATOM	3862	N	THR	B	580	13.703	51.609	60.227	1.00	24.94	B	N
	ATOM	3863	CA	THR	B	580	14.624	50.725	60.916	1.00	24.14	B	C
	ATOM	3864	CB	THR	B	580	14.660	49.338	60.248	1.00	25.45	B	C
	ATOM	3865	OG1	THR	B	580	15.179	49.453	58.917	1.00	29.39	B	O
	ATOM	3866	CG2	THR	B	580	13.261	48.755	60.183	1.00	26.26	B	C

	ATOM	3867	C	THR	B	580	16.033	51.299	60.964	1.00	22.96	B	C
	ATOM	3868	O	THR	B	580	16.857	50.837	61.741	1.00	24.60	B	O
	ATOM	3869	N	HIS	B	581	16.313	52.301	60.134	1.00	21.08	B	N
5	ATOM	3870	CA	HIS	B	581	17.635	52.922	60.120	1.00	18.84	B	C
	ATOM	3871	CB	HIS	B	581	17.807	53.857	58.917	1.00	18.72	B	C
	ATOM	3872	CG	HIS	B	581	17.830	53.159	57.596	1.00	19.48	B	C
	ATOM	3873	CD2	HIS	B	581	17.623	51.863	57.264	1.00	18.84	B	C
	ATOM	3874	ND1	HIS	B	581	18.056	53.826	56.413	1.00	19.97	B	N
10	ATOM	3875	CE1	HIS	B	581	17.986	52.971	55.408	1.00	20.52	B	C
	ATOM	3876	NE2	HIS	B	581	17.724	51.773	55.898	1.00	19.90	B	N
	ATOM	3877	C	HIS	B	581	17.816	53.750	61.381	1.00	17.62	B	C
	ATOM	3878	O	HIS	B	581	18.916	53.840	61.916	1.00	18.06	B	O
	ATOM	3879	N	LEU	B	582	16.732	54.370	61.839	1.00	15.83	B	N
15	ATOM	3880	CA	LEU	B	582	16.790	55.216	63.023	1.00	16.27	B	C
	ATOM	3881	CB	LEU	B	582	15.616	56.201	63.020	1.00	13.97	B	C
	ATOM	3882	CG	LEU	B	582	15.794	57.331	61.991	1.00	13.23	B	C
	ATOM	3883	CD1	LEU	B	582	14.451	57.903	61.590	1.00	11.99	B	C
	ATOM	3884	CD2	LEU	B	582	16.686	58.419	62.566	1.00	11.69	B	C
20	ATOM	3885	C	LEU	B	582	16.803	54.375	64.289	1.00	17.17	B	C
	ATOM	3886	O	LEU	B	582	17.331	54.785	65.325	1.00	18.20	B	O
	ATOM	3887	N	MET	B	583	16.236	53.181	64.190	1.00	17.43	B	N
	ATOM	3888	CA	MET	B	583	16.198	52.265	65.310	1.00	18.64	B	C
	ATOM	3889	CB	MET	B	583	15.194	51.156	65.014	1.00	22.26	B	C
25	ATOM	3890	CG	MET	B	583	15.088	50.100	66.086	1.00	26.95	B	C
	ATOM	3891	SD	MET	B	583	15.563	48.498	65.438	1.00	36.22	B	S
	ATOM	3892	CE	MET	B	583	17.300	48.533	65.735	1.00	31.52	B	C
	ATOM	3893	C	MET	B	583	17.597	51.689	65.531	1.00	18.39	B	C
	ATOM	3894	O	MET	B	583	18.050	51.552	66.668	1.00	16.95	B	O
30	ATOM	3895	N	THR	B	584	18.283	51.369	64.436	1.00	15.75	B	N
	ATOM	3896	CA	THR	B	584	19.626	50.806	64.503	1.00	13.95	B	C
	ATOM	3897	CB	THR	B	584	20.076	50.287	63.107	1.00	13.76	B	C
	ATOM	3898	OG1	THR	B	584	19.209	49.226	62.700	1.00	12.05	B	O
	ATOM	3899	CG2	THR	B	584	21.492	49.746	63.151	1.00	13.91	B	C
35	ATOM	3900	C	THR	B	584	20.627	51.834	65.031	1.00	14.59	B	C
	ATOM	3901	O	THR	B	584	21.597	51.477	65.709	1.00	14.88	B	O
	ATOM	3902	N	ALA	B	585	20.396	53.107	64.721	1.00	13.57	B	N
	ATOM	3903	CA	ALA	B	585	21.274	54.168	65.194	1.00	13.43	B	C
	ATOM	3904	CB	ALA	B	585	21.006	55.450	64.437	1.00	13.24	B	C
40	ATOM	3905	C	ALA	B	585	21.041	54.383	66.691	1.00	13.19	B	C
	ATOM	3906	O	ALA	B	585	21.953	54.771	67.422	1.00	12.17	B	O
	ATOM	3907	N	PHE	B	586	19.813	54.139	67.136	1.00	14.32	B	N
	ATOM	3908	CA	PHE	B	586	19.472	54.283	68.548	1.00	15.63	B	C
	ATOM	3909	CB	PHE	B	586	17.985	53.993	68.778	1.00	15.71	B	C
45	ATOM	3910	CG	PHE	B	586	17.565	54.058	70.229	1.00	18.67	B	C
	ATOM	3911	CD1	PHE	B	586	17.299	55.284	70.838	1.00	19.18	B	C
	ATOM	3912	CD2	PHE	B	586	17.448	52.894	70.986	1.00	18.01	B	C
	ATOM	3913	CE1	PHE	B	586	16.925	55.346	72.177	1.00	19.19	B	C
	ATOM	3914	CE2	PHE	B	586	17.075	52.942	72.322	1.00	17.28	B	C
50	ATOM	3915	CZ	PHE	B	586	16.812	54.168	72.922	1.00	17.69	B	C
	ATOM	3916	C	PHE	B	586	20.321	53.294	69.352	1.00	16.12	B	C
	ATOM	3917	O	PHE	B	586	20.750	53.598	70.462	1.00	17.26	B	O
	ATOM	3918	N	MET	B	587	20.577	52.126	68.767	1.00	14.53	B	N
	ATOM	3919	CA	MET	B	587	21.376	51.084	69.408	1.00	15.31	B	C
55	ATOM	3920	CB	MET	B	587	21.023	49.696	68.850	1.00	13.30	B	C
	ATOM	3921	CG	MET	B	587	19.574	49.284	68.921	1.00	15.37	B	C
	ATOM	3922	SD	MET	B	587	19.320	47.625	68.216	1.00	19.92	B	S
	ATOM	3923	CE	MET	B	587	20.411	46.609	69.258	1.00	14.39	B	C
	ATOM	3924	C	MET	B	587	22.886	51.225	69.254	1.00	15.31	B	C
60	ATOM	3925	O	MET	B	587	23.634	50.796	70.130	1.00	16.67	B	O
	ATOM	3926	N	THR	B	588	23.335	51.825	68.153	1.00	14.64	B	N
	ATOM	3927	CA	THR	B	588	24.769	51.884	67.859	1.00	13.98	B	C
	ATOM	3928	CB	THR	B	588	25.059	51.103	66.557	1.00	14.77	B	C
	ATOM	3929	OG1	THR	B	588	24.316	51.702	65.485	1.00	15.27	B	O
65	ATOM	3930	CG2	THR	B	588	24.641	49.647	66.681	1.00	11.92	B	C
	ATOM	3931	C	THR	B	588	25.516	53.198	67.710	1.00	12.35	B	C
	ATOM	3932	O	THR	B	588	26.749	53.200	67.730	1.00	11.32	B	O
	ATOM	3933	N	ALA	B	589	24.810	54.309	67.557	1.00	13.79	B	N
	ATOM	3934	CA	ALA	B	589	25.504	55.574	67.335	1.00	13.85	B	C

	ATOM	3935	CB	ALA	B	589	25.012	56.182	66.018	1.00	13.64	B	C
	ATOM	3936	C	ALA	B	589	25.466	56.636	68.428	1.00	12.99	B	C
	ATOM	3937	O	ALA	B	589	24.457	56.822	69.096	1.00	14.44	B	O
	ATOM	3938	N	ASP	B	590	26.581	57.344	68.582	1.00	14.11	B	N
5	ATOM	3939	CA	ASP	B	590	26.694	58.424	69.553	1.00	16.04	B	C
	ATOM	3940	CB	ASP	B	590	28.122	58.968	69.559	1.00	16.23	B	C
	ATOM	3941	CG	ASP	B	590	28.349	60.002	70.646	1.00	18.78	B	C
	ATOM	3942	OD1	ASP	B	590	28.187	61.206	70.359	1.00	19.14	B	O
10	ATOM	3943	OD2	ASP	B	590	28.698	59.617	71.785	1.00	19.08	B	O
	ATOM	3944	C	ASP	B	590	25.712	59.523	69.132	1.00	18.17	B	C
	ATOM	3945	O	ASP	B	590	24.922	60.012	69.935	1.00	19.41	B	O
	ATOM	3946	N	ASN	B	591	25.777	59.912	67.860	1.00	19.00	B	N
	ATOM	3947	CA	ASN	B	591	24.877	60.918	67.306	1.00	16.88	B	C
	ATOM	3948	CB	ASN	B	591	25.381	62.334	67.609	1.00	16.47	B	C
15	ATOM	3949	CG	ASN	B	591	26.711	62.641	66.972	1.00	17.24	B	C
	ATOM	3950	OD1	ASN	B	591	27.750	62.612	67.630	1.00	18.57	B	O
	ATOM	3951	ND2	ASN	B	591	26.689	62.960	65.692	1.00	16.80	B	N
	ATOM	3952	C	ASN	B	591	24.729	60.681	65.799	1.00	16.86	B	C
	ATOM	3953	O	ASN	B	591	25.440	59.847	65.233	1.00	15.03	B	O
20	ATOM	3954	N	ILE	B	592	23.803	61.390	65.154	1.00	16.60	B	N
	ATOM	3955	CA	ILE	B	592	23.574	61.196	63.719	1.00	15.43	B	C
	ATOM	3956	CB	ILE	B	592	22.267	60.393	63.458	1.00	13.93	B	C
	ATOM	3957	CG2	ILE	B	592	22.324	59.039	64.134	1.00	11.68	B	C
	ATOM	3958	CG1	ILE	B	592	21.063	61.182	63.977	1.00	15.55	B	C
25	ATOM	3959	CD1	ILE	B	592	19.746	60.804	63.309	1.00	13.57	B	C
	ATOM	3960	C	ILE	B	592	23.473	62.493	62.921	1.00	15.06	B	C
	ATOM	3961	O	ILE	B	592	23.534	63.592	63.478	1.00	15.04	B	O
	ATOM	3962	N	SER	B	593	23.326	62.333	61.606	1.00	15.07	B	N
	ATOM	3963	CA	SER	B	593	23.171	63.446	60.669	1.00	13.35	B	C
30	ATOM	3964	CB	SER	B	593	24.319	63.467	59.667	1.00	13.47	B	C
	ATOM	3965	OG	SER	B	593	25.498	63.947	60.269	1.00	12.52	B	O
	ATOM	3966	C	SER	B	593	21.856	63.252	59.923	1.00	12.31	B	C
	ATOM	3967	O	SER	B	593	21.526	62.132	59.525	1.00	12.84	B	O
	ATOM	3968	N	HIS	B	594	21.120	64.350	59.754	1.00	13.56	B	N
35	ATOM	3969	CA	HIS	B	594	19.814	64.409	59.073	1.00	13.96	B	C
	ATOM	3970	CB	HIS	B	594	19.756	63.467	57.847	1.00	13.55	B	C
	ATOM	3971	CG	HIS	B	594	20.668	63.874	56.725	1.00	13.09	B	C
	ATOM	3972	CD2	HIS	B	594	21.675	63.207	56.110	1.00	11.96	B	C
	ATOM	3973	ND1	HIS	B	594	20.642	65.132	56.157	1.00	11.93	B	N
40	ATOM	3974	CE1	HIS	B	594	21.596	65.224	55.245	1.00	8.05	B	C
	ATOM	3975	NE2	HIS	B	594	22.237	64.070	55.198	1.00	11.38	B	N
	ATOM	3976	C	HIS	B	594	18.663	64.110	60.033	1.00	13.29	B	C
	ATOM	3977	O	HIS	B	594	18.055	65.030	60.558	1.00	13.00	B	O
	ATOM	3978	N	GLY	B	595	18.362	62.834	60.256	1.00	13.12	B	N
45	ATOM	3979	CA	GLY	B	595	17.292	62.466	61.170	1.00	12.96	B	C
	ATOM	3980	C	GLY	B	595	15.870	62.867	60.802	1.00	14.60	B	C
	ATOM	3981	O	GLY	B	595	14.972	62.813	61.643	1.00	12.75	B	O
	ATOM	3982	N	LEU	B	596	15.653	63.238	59.544	1.00	15.97	B	N
	ATOM	3983	CA	LEU	B	596	14.337	63.670	59.063	1.00	13.96	B	C
50	ATOM	3984	CB	LEU	B	596	14.389	63.931	57.554	1.00	13.67	B	C
	ATOM	3985	CG	LEU	B	596	15.295	65.067	57.091	1.00	14.26	B	C
	ATOM	3986	CD1	LEU	B	596	15.308	65.122	55.562	1.00	13.08	B	C
	ATOM	3987	CD2	LEU	B	596	14.793	66.383	57.684	1.00	13.07	B	C
	ATOM	3988	C	LEU	B	596	13.193	62.708	59.342	1.00	14.13	B	C
55	ATOM	3989	O	LEU	B	596	12.109	63.111	59.774	1.00	13.45	B	O
	ATOM	3990	N	ASN	B	597	13.431	61.433	59.086	1.00	15.09	B	N
	ATOM	3991	CA	ASN	B	597	12.403	60.432	59.275	1.00	15.83	B	C
	ATOM	3992	CB	ASN	B	597	12.862	59.113	58.647	1.00	14.69	B	C
	ATOM	3993	CG	ASN	B	597	12.571	59.061	57.166	1.00	15.47	B	C
60	ATOM	3994	OD1	ASN	B	597	11.820	59.885	56.653	1.00	14.94	B	O
	ATOM	3995	ND2	ASN	B	597	13.162	58.101	56.471	1.00	14.76	B	N
	ATOM	3996	C	ASN	B	597	11.908	60.213	60.706	1.00	17.16	B	C
	ATOM	3997	O	ASN	B	597	10.991	59.410	60.923	1.00	15.93	B	O
	ATOM	3998	N	LEU	B	598	12.492	60.908	61.684	1.00	16.27	B	N
65	ATOM	3999	CA	LEU	B	598	12.014	60.756	63.065	1.00	17.50	B	C
	ATOM	4000	CB	LEU	B	598	12.892	61.543	64.047	1.00	16.38	B	C
	ATOM	4001	CG	LEU	B	598	14.223	60.871	64.402	1.00	16.05	B	C
	ATOM	4002	CD1	LEU	B	598	15.088	61.825	65.208	1.00	15.41	B	C

	ATOM	4003	CD2	LEU	B	598	13.955	59.583	65.169	1.00	13.73	B	C
	ATOM	4004	C	LEU	B	598	10.588	61.304	63.088	1.00	18.15	B	C
	ATOM	4005	O	LEU	B	598	9.774	60.952	63.944	1.00	15.96	B	O
5	ATOM	4006	N	LYS	B	599	10.305	62.166	62.114	1.00	18.99	B	N
	ATOM	4007	CA	LYS	B	599	8.998	62.784	61.955	1.00	20.59	B	C
	ATOM	4008	CB	LYS	B	599	9.006	63.723	60.748	1.00	24.42	B	C
	ATOM	4009	CG	LYS	B	599	9.285	65.161	61.090	1.00	29.19	B	C
	ATOM	4010	CD	LYS	B	599	8.001	65.978	61.119	1.00	34.96	B	C
10	ATOM	4011	CE	LYS	B	599	7.964	66.923	62.319	1.00	35.31	B	C
	ATOM	4012	NZ	LYS	B	599	7.248	66.313	63.471	1.00	37.89	B	N
	ATOM	4013	C	LYS	B	599	7.913	61.744	61.746	1.00	19.21	B	C
	ATOM	4014	O	LYS	B	599	6.755	61.993	62.052	1.00	19.38	B	O
	ATOM	4015	N	LYS	B	600	8.288	60.582	61.224	1.00	17.56	B	N
15	ATOM	4016	CA	LYS	B	600	7.319	59.526	60.954	1.00	19.57	B	C
	ATOM	4017	CB	LYS	B	600	7.673	58.812	59.649	1.00	21.22	B	C
	ATOM	4018	CG	LYS	B	600	7.814	59.719	58.440	1.00	24.55	B	C
	ATOM	4019	CD	LYS	B	600	8.379	58.941	57.264	1.00	28.42	B	C
	ATOM	4020	CE	LYS	B	600	8.199	59.703	55.960	1.00	31.12	B	C
20	ATOM	4021	NZ	LYS	B	600	8.821	58.985	54.804	1.00	35.09	B	N
	ATOM	4022	C	LYS	B	600	7.159	58.475	62.052	1.00	20.43	B	C
	ATOM	4023	O	LYS	B	600	6.316	57.587	61.933	1.00	21.09	B	O
	ATOM	4024	N	SER	B	601	7.964	58.562	63.106	1.00	19.21	B	N
	ATOM	4025	CA	SER	B	601	7.892	57.595	64.207	1.00	19.18	B	C
25	ATOM	4026	CB	SER	B	601	9.108	56.670	64.183	1.00	16.72	B	C
	ATOM	4027	OG	SER	B	601	8.978	55.667	65.164	1.00	20.33	B	O
	ATOM	4028	C	SER	B	601	7.832	58.292	65.564	1.00	18.88	B	C
	ATOM	4029	O	SER	B	601	8.842	58.801	66.057	1.00	17.58	B	O
	ATOM	4030	N	PRO	B	602	6.645	58.315	66.187	1.00	19.08	B	N
30	ATOM	4031	CD	PRO	B	602	5.392	57.708	65.703	1.00	19.54	B	C
	ATOM	4032	CA	PRO	B	602	6.467	58.959	67.495	1.00	18.89	B	C
	ATOM	4033	CB	PRO	B	602	4.965	58.833	67.759	1.00	18.35	B	C
	ATOM	4034	CG	PRO	B	602	4.546	57.650	66.947	1.00	19.10	B	C
	ATOM	4035	C	PRO	B	602	7.299	58.256	68.562	1.00	18.37	B	C
35	ATOM	4036	O	PRO	B	602	7.855	58.892	69.455	1.00	17.75	B	O
	ATOM	4037	N	VAL	B	603	7.388	56.935	68.448	1.00	19.49	B	N
	ATOM	4038	CA	VAL	B	603	8.152	56.140	69.398	1.00	18.89	B	C
	ATOM	4039	CB	VAL	B	603	7.882	54.626	69.195	1.00	18.33	B	C
	ATOM	4040	CG1	VAL	B	603	8.707	53.810	70.171	1.00	18.64	B	C
40	ATOM	4041	CG2	VAL	B	603	6.400	54.332	69.405	1.00	15.22	B	C
	ATOM	4042	C	VAL	B	603	9.652	56.434	69.280	1.00	19.62	B	C
	ATOM	4043	O	VAL	B	603	10.315	56.686	70.290	1.00	20.56	B	O
	ATOM	4044	N	LEU	B	604	10.184	56.430	68.057	1.00	17.08	B	N
	ATOM	4045	CA	LEU	B	604	11.606	56.705	67.866	1.00	14.80	B	C
45	ATOM	4046	CB	LEU	B	604	12.051	56.282	66.456	1.00	15.33	B	C
	ATOM	4047	CG	LEU	B	604	12.372	54.791	66.270	1.00	14.03	B	C
	ATOM	4048	CD1	LEU	B	604	12.442	54.452	64.791	1.00	12.86	B	C
	ATOM	4049	CD2	LEU	B	604	13.694	54.467	66.943	1.00	14.77	B	C
	ATOM	4050	C	LEU	B	604	11.951	58.176	68.112	1.00	13.30	B	C
50	ATOM	4051	O	LEU	B	604	13.029	58.496	68.613	1.00	12.57	B	O
	ATOM	4052	N	GLN	B	605	11.039	59.073	67.758	1.00	12.81	B	N
	ATOM	4053	CA	GLN	B	605	11.260	60.498	67.966	1.00	11.36	B	C
	ATOM	4054	CB	GLN	B	605	10.136	61.303	67.315	1.00	9.27	B	C
	ATOM	4055	CG	GLN	B	605	10.382	62.808	67.287	1.00	10.02	B	C
55	ATOM	4056	CD	GLN	B	605	9.185	63.559	66.741	1.00	12.86	B	C
	ATOM	4057	OE1	GLN	B	605	8.430	63.021	65.925	1.00	16.02	B	O
	ATOM	4058	NE2	GLN	B	605	8.998	64.797	67.188	1.00	7.87	B	N
	ATOM	4059	C	GLN	B	605	11.323	60.820	69.464	1.00	11.00	B	C
	ATOM	4060	O	GLN	B	605	12.125	61.647	69.901	1.00	10.86	B	O
60	ATOM	4061	N	TYR	B	606	10.469	60.163	70.242	1.00	11.63	B	N
	ATOM	4062	CA	TYR	B	606	10.420	60.370	71.691	1.00	12.44	B	C
	ATOM	4063	CB	TYR	B	606	9.145	59.739	72.264	1.00	12.27	B	C
	ATOM	4064	CG	TYR	B	606	8.815	60.163	73.685	1.00	12.49	B	C
	ATOM	4065	CD1	TYR	B	606	8.697	61.514	74.023	1.00	13.53	B	C
65	ATOM	4066	CE1	TYR	B	606	8.388	61.908	75.326	1.00	12.51	B	C
	ATOM	4067	CD2	TYR	B	606	8.616	59.212	74.687	1.00	9.61	B	C
	ATOM	4068	CE2	TYR	B	606	8.307	59.594	75.991	1.00	12.64	B	C
	ATOM	4069	CZ	TYR	B	606	8.195	60.939	76.301	1.00	12.08	B	C
	ATOM	4070	OH	TYR	B	606	7.892	61.311	77.586	1.00	15.21	B	O

	ATOM	4071	C	TYR	B	606	11.662	59.770	72.353	1.00	11.87	B	C
	ATOM	4072	O	TYR	B	606	12.233	60.357	73.281	1.00	12.10	B	O
	ATOM	4073	N	LEU	B	607	12.087	58.606	71.865	1.00	11.79	B	N
	ATOM	4074	CA	LEU	B	607	13.280	57.946	72.394	1.00	10.69	B	C
5	ATOM	4075	CB	LEU	B	607	13.467	56.583	71.733	1.00	10.88	B	C
	ATOM	4076	CG	LEU	B	607	12.576	55.473	72.288	1.00	13.63	B	C
	ATOM	4077	CD1	LEU	B	607	12.887	54.180	71.566	1.00	11.80	B	C
	ATOM	4078	CD2	LEU	B	607	12.803	55.321	73.795	1.00	10.72	B	C
	ATOM	4079	C	LEU	B	607	14.510	58.805	72.143	1.00	11.06	B	C
10	ATOM	4080	O	LEU	B	607	15.420	58.856	72.966	1.00	11.22	B	O
	ATOM	4081	N	PHE	B	608	14.542	59.496	71.008	1.00	11.57	B	N
	ATOM	4082	CA	PHE	B	608	15.682	60.344	70.708	1.00	11.01	B	C
	ATOM	4083	CB	PHE	B	608	15.654	60.793	69.240	1.00	9.27	B	C
	ATOM	4084	CG	PHE	B	608	16.438	59.895	68.323	1.00	9.11	B	C
15	ATOM	4085	CD1	PHE	B	608	16.035	58.580	68.106	1.00	9.11	B	C
	ATOM	4086	CD2	PHE	B	608	17.582	60.359	67.682	1.00	6.81	B	C
	ATOM	4087	CE1	PHE	B	608	16.765	57.737	67.260	1.00	11.43	B	C
	ATOM	4088	CE2	PHE	B	608	18.317	59.529	66.836	1.00	7.30	B	C
	ATOM	4089	CZ	PHE	B	608	17.909	58.215	66.623	1.00	9.27	B	C
20	ATOM	4090	C	PHE	B	608	15.676	61.549	71.643	1.00	10.36	B	C
	ATOM	4091	O	PHE	B	608	16.727	62.103	71.963	1.00	11.23	B	O
	ATOM	4092	N	PHE	B	609	14.487	61.955	72.076	1.00	12.07	B	N
	ATOM	4093	CA	PHE	B	609	14.348	63.074	72.999	1.00	11.34	B	C
	ATOM	4094	CB	PHE	B	609	12.896	63.547	73.051	1.00	12.50	B	C
25	ATOM	4095	CG	PHE	B	609	12.604	64.450	74.219	1.00	13.12	B	C
	ATOM	4096	CD1	PHE	B	609	11.962	63.954	75.359	1.00	13.38	B	C
	ATOM	4097	CD2	PHE	B	609	13.021	65.778	74.208	1.00	11.89	B	C
	ATOM	4098	CE1	PHE	B	609	11.748	64.769	76.473	1.00	10.97	B	C
	ATOM	4099	CE2	PHE	B	609	12.810	66.603	75.317	1.00	11.32	B	C
30	ATOM	4100	CZ	PHE	B	609	12.173	66.095	76.452	1.00	9.86	B	C
	ATOM	4101	C	PHE	B	609	14.783	62.628	74.400	1.00	12.25	B	C
	ATOM	4102	O	PHE	B	609	15.585	63.292	75.053	1.00	13.76	B	O
	ATOM	4103	N	LEU	B	610	14.244	61.500	74.854	1.00	11.78	B	N
	ATOM	4104	CA	LEU	B	610	14.575	60.963	76.170	1.00	12.38	B	C
35	ATOM	4105	CB	LEU	B	610	13.811	59.665	76.421	1.00	8.92	B	C
	ATOM	4106	CG	LEU	B	610	12.295	59.772	76.518	1.00	8.30	B	C
	ATOM	4107	CD1	LEU	B	610	11.715	58.377	76.668	1.00	5.53	B	C
	ATOM	4108	CD2	LEU	B	610	11.902	60.657	77.698	1.00	9.45	B	C
	ATOM	4109	C	LEU	B	610	16.075	60.706	76.328	1.00	14.65	B	C
40	ATOM	4110	O	LEU	B	610	16.663	61.021	77.371	1.00	17.63	B	O
	ATOM	4111	N	ALA	B	611	16.697	60.132	75.301	1.00	14.19	B	N
	ATOM	4112	CA	ALA	B	611	18.126	59.851	75.347	1.00	12.39	B	C
	ATOM	4113	CB	ALA	B	611	18.454	58.663	74.454	1.00	14.25	B	C
	ATOM	4114	C	ALA	B	611	18.945	61.067	74.924	1.00	12.01	B	C
45	ATOM	4115	O	ALA	B	611	20.167	61.042	74.965	1.00	12.20	B	O
	ATOM	4116	N	GLN	B	612	18.261	62.136	74.531	1.00	13.11	B	N
	ATOM	4117	CA	GLN	B	612	18.915	63.367	74.084	1.00	14.02	B	C
	ATOM	4118	CB	GLN	B	612	19.518	64.115	75.286	1.00	14.31	B	C
	ATOM	4119	CG	GLN	B	612	18.525	64.988	76.059	1.00	13.18	B	C
50	ATOM	4120	CD	GLN	B	612	17.832	66.023	75.180	1.00	18.34	B	C
	ATOM	4121	OE1	GLN	B	612	18.409	67.061	74.850	1.00	17.27	B	O
	ATOM	4122	NE2	GLN	B	612	16.588	65.743	74.799	1.00	16.56	B	N
	ATOM	4123	C	GLN	B	612	20.002	63.121	73.018	1.00	13.55	B	C
	ATOM	4124	O	GLN	B	612	21.086	63.703	73.078	1.00	13.43	B	O
55	ATOM	4125	N	ILE	B	613	19.702	62.269	72.038	1.00	14.23	B	N
	ATOM	4126	CA	ILE	B	613	20.656	61.955	70.973	1.00	11.58	B	C
	ATOM	4127	CB	ILE	B	613	20.161	60.749	70.143	1.00	10.35	B	C
	ATOM	4128	CG2	ILE	B	613	21.226	60.340	69.120	1.00	8.86	B	C
	ATOM	4129	CG1	ILE	B	613	19.834	59.584	71.078	1.00	9.51	B	C
60	ATOM	4130	CD1	ILE	B	613	19.369	58.322	70.384	1.00	8.92	B	C
	ATOM	4131	C	ILE	B	613	20.869	63.161	70.044	1.00	12.09	B	C
	ATOM	4132	O	ILE	B	613	19.927	63.648	69.425	1.00	16.25	B	O
	ATOM	4133	N	PRO	B	614	22.112	63.661	69.939	1.00	10.76	B	N
	ATOM	4134	CD	PRO	B	614	23.333	63.191	70.617	1.00	10.13	B	C
65	ATOM	4135	CA	PRO	B	614	22.376	64.813	69.063	1.00	10.07	B	C
	ATOM	4136	CB	PRO	B	614	23.846	65.140	69.310	1.00	9.12	B	C
	ATOM	4137	CG	PRO	B	614	24.234	64.375	70.535	1.00	7.95	B	C
	ATOM	4138	C	PRO	B	614	22.111	64.515	67.583	1.00	10.71	B	C

	ATOM	4139	O	PRO	B	614	22.466	63.447	67.079	1.00	11.07	B	O
	ATOM	4140	N	ILE	B	615	21.482	65.467	66.904	1.00	11.99	B	N
	ATOM	4141	CA	ILE	B	615	21.151	65.337	65.483	1.00	11.33	B	C
5	ATOM	4142	CB	ILE	B	615	19.612	65.228	65.261	1.00	11.64	B	C
	ATOM	4143	CG2	ILE	B	615	19.296	65.132	63.765	1.00	12.25	B	C
	ATOM	4144	CG1	ILE	B	615	19.057	63.996	65.978	1.00	9.43	B	C
	ATOM	4145	CD1	ILE	B	615	17.595	64.121	66.346	1.00	8.98	B	C
	ATOM	4146	C	ILE	B	615	21.656	66.554	64.711	1.00	11.38	B	C
10	ATOM	4147	O	ILE	B	615	21.232	67.681	64.960	1.00	11.95	B	O
	ATOM	4148	N	ALA	B	616	22.586	66.331	63.790	1.00	11.93	B	N
	ATOM	4149	CA	ALA	B	616	23.107	67.421	62.965	1.00	11.48	B	C
	ATOM	4150	CB	ALA	B	616	24.531	67.111	62.507	1.00	11.90	B	C
	ATOM	4151	C	ALA	B	616	22.175	67.517	61.756	1.00	12.40	B	C
	ATOM	4152	O	ALA	B	616	22.084	66.576	60.960	1.00	11.70	B	O
15	ATOM	4153	N	MET	B	617	21.467	68.636	61.636	1.00	12.58	B	N
	ATOM	4154	CA	MET	B	617	20.537	68.837	60.523	1.00	11.79	B	C
	ATOM	4155	CB	MET	B	617	19.177	69.316	61.053	1.00	13.18	B	C
	ATOM	4156	CG	MET	B	617	18.609	68.488	62.216	1.00	15.39	B	C
	ATOM	4157	SD	MET	B	617	16.785	68.495	62.318	1.00	18.79	B	S
20	ATOM	4158	CE	MET	B	617	16.530	69.728	63.439	1.00	24.12	B	C
	ATOM	4159	C	MET	B	617	21.076	69.833	59.481	1.00	12.37	B	C
	ATOM	4160	O	MET	B	617	21.867	70.734	59.802	1.00	11.29	B	O
	ATOM	4161	N	SER	B	618	20.645	69.656	58.232	1.00	14.59	B	N
25	ATOM	4162	CA	SER	B	618	21.056	70.502	57.105	1.00	12.73	B	C
	ATOM	4163	CB	SER	B	618	22.087	69.771	56.244	1.00	12.54	B	C
	ATOM	4164	OG	SER	B	618	23.077	69.143	57.034	1.00	14.34	B	O
	ATOM	4165	C	SER	B	618	19.848	70.826	56.241	1.00	12.76	B	C
	ATOM	4166	O	SER	B	618	19.618	70.180	55.225	1.00	14.20	B	O
	ATOM	4167	N	PRO	B	619	19.046	71.821	56.645	1.00	13.40	B	N
30	ATOM	4168	CD	PRO	B	619	19.195	72.617	57.874	1.00	9.26	B	C
	ATOM	4169	CA	PRO	B	619	17.850	72.213	55.884	1.00	13.90	B	C
	ATOM	4170	CB	PRO	B	619	17.229	73.327	56.738	1.00	15.42	B	C
	ATOM	4171	CG	PRO	B	619	17.807	73.121	58.112	1.00	12.68	B	C
35	ATOM	4172	C	PRO	B	619	18.084	72.654	54.429	1.00	15.22	B	C
	ATOM	4173	O	PRO	B	619	17.272	72.344	53.557	1.00	16.05	B	O
	ATOM	4174	N	LEU	B	620	19.169	73.380	54.164	1.00	14.25	B	N
	ATOM	4175	CA	LEU	B	620	19.441	73.818	52.801	1.00	15.45	B	C
	ATOM	4176	CB	LEU	B	620	20.609	74.804	52.774	1.00	13.60	B	C
	ATOM	4177	CG	LEU	B	620	20.240	76.231	53.202	1.00	13.47	B	C
40	ATOM	4178	CD1	LEU	B	620	21.476	77.119	53.178	1.00	11.42	B	C
	ATOM	4179	CD2	LEU	B	620	19.171	76.793	52.279	1.00	14.35	B	C
	ATOM	4180	C	LEU	B	620	19.735	72.611	51.907	1.00	16.20	B	C
	ATOM	4181	O	LEU	B	620	19.261	72.533	50.772	1.00	17.04	B	O
45	ATOM	4182	N	SER	B	621	20.505	71.661	52.426	1.00	15.84	B	N
	ATOM	4183	CA	SER	B	621	20.827	70.456	51.677	1.00	15.64	B	C
	ATOM	4184	CB	SER	B	621	21.885	69.642	52.421	1.00	15.78	B	C
	ATOM	4185	OG	SER	B	621	21.886	68.294	51.988	1.00	16.62	B	O
	ATOM	4186	C	SER	B	621	19.564	69.610	51.449	1.00	17.29	B	C
	ATOM	4187	O	SER	B	621	19.337	69.104	50.343	1.00	17.79	B	O
50	ATOM	4188	N	ASN	B	622	18.742	69.458	52.488	1.00	16.43	B	N
	ATOM	4189	CA	ASN	B	622	17.502	68.687	52.377	1.00	15.66	B	C
	ATOM	4190	CB	ASN	B	622	16.752	68.658	53.713	1.00	15.80	B	C
	ATOM	4191	CG	ASN	B	622	17.559	68.039	54.837	1.00	17.76	B	C
	ATOM	4192	OD1	ASN	B	622	17.223	68.208	56.006	1.00	17.27	B	O
55	ATOM	4193	ND2	ASN	B	622	18.617	67.316	54.493	1.00	17.33	B	N
	ATOM	4194	C	ASN	B	622	16.576	69.315	51.333	1.00	15.97	B	C
	ATOM	4195	O	ASN	B	622	15.909	68.611	50.576	1.00	15.00	B	O
	ATOM	4196	N	ASN	B	623	16.528	70.644	51.322	1.00	16.32	B	N
60	ATOM	4197	CA	ASN	B	623	15.685	71.391	50.397	1.00	19.47	B	C
	ATOM	4198	CB	ASN	B	623	15.813	72.884	50.695	1.00	17.85	B	C
	ATOM	4199	CG	ASN	B	623	15.104	73.756	49.677	1.00	15.83	B	C
	ATOM	4200	OD1	ASN	B	623	15.736	74.556	48.982	1.00	16.79	B	O
	ATOM	4201	ND2	ASN	B	623	13.791	73.622	49.593	1.00	13.39	B	N
	ATOM	4202	C	ASN	B	623	16.050	71.113	48.942	1.00	23.11	B	C
65	ATOM	4203	O	ASN	B	623	15.198	71.128	48.063	1.00	23.81	B	O
	ATOM	4204	N	SER	B	624	17.323	70.842	48.701	1.00	26.94	B	N
	ATOM	4205	CA	SER	B	624	17.815	70.573	47.358	1.00	31.87	B	C
	ATOM	4206	CB	SER	B	624	19.223	71.152	47.204	1.00	33.23	B	C

	ATOM	4207	OG	SER B 624	19.384	71.804	45.961	1.00	40.30	B	O
	ATOM	4208	C	SER B 624	17.866	69.092	47.018	1.00	33.23	B	C
	ATOM	4209	O	SER B 624	18.104	68.734	45.869	1.00	33.48	B	O
	ATOM	4210	N	LEU B 625	17.635	68.232	48.006	1.00	35.59	B	N
5	ATOM	4211	CA	LEU B 625	17.723	66.797	47.776	1.00	36.84	B	C
	ATOM	4212	CB	LEU B 625	18.920	66.237	48.558	1.00	38.63	B	C
	ATOM	4213	CG	LEU B 625	20.171	65.678	47.865	1.00	40.69	B	C
	ATOM	4214	CD1	LEU B 625	19.976	65.583	46.373	1.00	43.30	B	C
10	ATOM	4215	CD2	LEU B 625	21.346	66.566	48.178	1.00	41.95	B	C
	ATOM	4216	C	LEU B 625	16.493	65.938	48.079	1.00	35.96	B	C
	ATOM	4217	O	LEU B 625	16.123	65.089	47.267	1.00	36.79	B	O
	ATOM	4218	N	PHE B 626	15.859	66.141	49.231	1.00	35.65	B	N
	ATOM	4219	CA	PHE B 626	14.713	65.307	49.598	1.00	33.72	B	C
	ATOM	4220	CB	PHE B 626	15.163	64.217	50.584	1.00	33.23	B	C
15	ATOM	4221	CG	PHE B 626	16.139	63.227	50.006	1.00	34.79	B	C
	ATOM	4222	CD1	PHE B 626	15.690	62.112	49.305	1.00	34.54	B	C
	ATOM	4223	CD2	PHE B 626	17.512	63.398	50.179	1.00	35.61	B	C
	ATOM	4224	CE1	PHE B 626	16.595	61.183	48.786	1.00	36.01	B	C
	ATOM	4225	CE2	PHE B 626	18.426	62.473	49.663	1.00	36.05	B	C
20	ATOM	4226	CZ	PHE B 626	17.967	61.365	48.967	1.00	35.28	B	C
	ATOM	4227	C	PHE B 626	13.484	65.996	50.192	1.00	32.50	B	C
	ATOM	4228	O	PHE B 626	12.390	65.450	50.119	1.00	33.34	B	O
	ATOM	4229	N	LEU B 627	13.645	67.179	50.774	1.00	31.09	B	N
	ATOM	4230	CA	LEU B 627	12.513	67.854	51.407	1.00	29.64	B	C
25	ATOM	4231	CB	LEU B 627	12.491	67.505	52.899	1.00	30.44	B	C
	ATOM	4232	CG	LEU B 627	11.222	67.073	53.637	1.00	29.72	B	C
	ATOM	4233	CD1	LEU B 627	11.382	67.449	55.102	1.00	27.81	B	C
	ATOM	4234	CD2	LEU B 627	9.985	67.719	53.051	1.00	28.50	B	C
	ATOM	4235	C	LEU B 627	12.549	69.366	51.266	1.00	29.25	B	C
30	ATOM	4236	O	LEU B 627	13.545	69.994	51.601	1.00	30.93	B	O
	ATOM	4237	N	GLU B 628	11.447	69.946	50.803	1.00	29.35	B	N
	ATOM	4238	CA	GLU B 628	11.338	71.396	50.629	1.00	30.42	B	C
	ATOM	4239	CB	GLU B 628	9.954	71.734	50.068	1.00	34.66	B	C
	ATOM	4240	CG	GLU B 628	9.425	73.118	50.409	1.00	42.11	B	C
35	ATOM	4241	CD	GLU B 628	7.931	73.240	50.139	1.00	46.89	B	C
	ATOM	4242	OE1	GLU B 628	7.376	72.350	49.455	1.00	48.12	B	O
	ATOM	4243	OE2	GLU B 628	7.312	74.223	50.608	1.00	49.53	B	O
	ATOM	4244	C	GLU B 628	11.578	72.132	51.954	1.00	27.73	B	C
	ATOM	4245	O	GLU B 628	11.069	71.718	52.996	1.00	26.59	B	O
40	ATOM	4246	N	TYR B 629	12.332	73.231	51.902	1.00	23.85	B	N
	ATOM	4247	CA	TYR B 629	12.670	73.997	53.097	1.00	21.92	B	C
	ATOM	4248	CB	TYR B 629	13.258	75.363	52.729	1.00	20.31	B	C
	ATOM	4249	CG	TYR B 629	14.193	75.880	53.801	1.00	19.69	B	C
	ATOM	4250	CD1	TYR B 629	13.699	76.536	54.934	1.00	19.87	B	C
45	ATOM	4251	CE1	TYR B 629	14.549	76.926	55.975	1.00	20.86	B	C
	ATOM	4252	CD2	TYR B 629	15.560	75.637	53.729	1.00	18.76	B	C
	ATOM	4253	CE2	TYR B 629	16.416	76.023	54.756	1.00	21.01	B	C
	ATOM	4254	CZ	TYR B 629	15.908	76.663	55.879	1.00	22.80	B	C
	ATOM	4255	OH	TYR B 629	16.761	77.004	56.910	1.00	25.09	B	O
50	ATOM	4256	C	TYR B 629	11.566	74.198	54.123	1.00	21.53	B	C
	ATOM	4257	O	TYR B 629	11.685	73.746	55.259	1.00	22.27	B	O
	ATOM	4258	N	ALA B 630	10.495	74.874	53.730	1.00	21.97	B	N
	ATOM	4259	CA	ALA B 630	9.387	75.148	54.640	1.00	24.13	B	C
	ATOM	4260	CB	ALA B 630	8.296	75.931	53.910	1.00	23.44	B	C
55	ATOM	4261	C	ALA B 630	8.786	73.903	55.298	1.00	24.26	B	C
	ATOM	4262	O	ALA B 630	8.108	74.007	56.320	1.00	26.22	B	O
	ATOM	4263	N	LYS B 631	9.043	72.734	54.722	1.00	23.25	B	N
	ATOM	4264	CA	LYS B 631	8.512	71.484	55.257	1.00	22.39	B	C
	ATOM	4265	CB	LYS B 631	8.201	70.520	54.108	1.00	26.01	B	C
60	ATOM	4266	CG	LYS B 631	6.764	70.558	53.608	1.00	30.97	B	C
	ATOM	4267	CD	LYS B 631	6.354	71.964	53.187	1.00	37.57	B	C
	ATOM	4268	CE	LYS B 631	4.865	72.215	53.438	1.00	40.95	B	C
	ATOM	4269	NZ	LYS B 631	4.389	73.482	52.795	1.00	43.21	B	N
	ATOM	4270	C	LYS B 631	9.476	70.799	56.231	1.00	20.67	B	C
65	ATOM	4271	O	LYS B 631	9.158	69.749	56.790	1.00	20.06	B	O
	ATOM	4272	N	ASN B 632	10.647	71.393	56.437	1.00	18.03	B	N
	ATOM	4273	CA	ASN B 632	11.651	70.808	57.324	1.00	17.74	B	C
	ATOM	4274	CB	ASN B 632	12.968	71.572	57.200	1.00	15.35	B	C

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	ATOM	4275	CG	ASN	B	632	14.154	70.729	57.575	1.00	16.99	B	C
	ATOM	4276	OD1	ASN	B	632	14.904	70.279	56.709	1.00	17.78	B	O
	ATOM	4277	ND2	ASN	B	632	14.335	70.500	58.875	1.00	15.08	B	N
5	ATOM	4278	C	ASN	B	632	11.247	70.742	58.800	1.00	17.33	B	C
	ATOM	4279	O	ASN	B	632	10.815	71.738	59.379	1.00	16.93	B	O
	ATOM	4280	N	PRO	B	633	11.400	69.561	59.430	1.00	16.68	B	N
	ATOM	4281	CD	PRO	B	633	11.907	68.304	58.847	1.00	15.87	B	C
	ATOM	4282	CA	PRO	B	633	11.044	69.396	60.845	1.00	16.46	B	C
10	ATOM	4283	CB	PRO	B	633	10.985	67.887	61.024	1.00	15.00	B	C
	ATOM	4284	CG	PRO	B	633	11.969	67.369	60.030	1.00	14.78	B	C
	ATOM	4285	C	PRO	B	633	12.039	70.030	61.816	1.00	16.40	B	C
	ATOM	4286	O	PRO	B	633	11.968	69.771	63.008	1.00	18.83	B	O
	ATOM	4287	N	PHE	B	634	12.955	70.856	61.310	1.00	14.58	B	N
15	ATOM	4288	CA	PHE	B	634	13.952	71.499	62.154	1.00	14.03	B	C
	ATOM	4289	CB	PHE	B	634	14.830	72.443	61.320	1.00	13.29	B	C
	ATOM	4290	CG	PHE	B	634	15.731	73.325	62.152	1.00	16.70	B	C
	ATOM	4291	CD1	PHE	B	634	15.388	74.650	62.409	1.00	18.30	B	C
	ATOM	4292	CD2	PHE	B	634	16.894	72.817	62.725	1.00	15.77	B	C
20	ATOM	4293	CE1	PHE	B	634	16.186	75.449	63.225	1.00	16.75	B	C
	ATOM	4294	CE2	PHE	B	634	17.697	73.611	63.543	1.00	16.49	B	C
	ATOM	4295	CZ	PHE	B	634	17.340	74.927	63.793	1.00	14.68	B	C
	ATOM	4296	C	PHE	B	634	13.360	72.270	63.343	1.00	14.94	B	C
	ATOM	4297	O	PHE	B	634	13.747	72.042	64.491	1.00	14.15	B	O
25	ATOM	4298	N	LEU	B	635	12.434	73.182	63.070	1.00	12.63	B	N
	ATOM	4299	CA	LEU	B	635	11.832	73.983	64.127	1.00	13.27	B	C
	ATOM	4300	CB	LEU	B	635	10.922	75.059	63.520	1.00	12.22	B	C
	ATOM	4301	CG	LEU	B	635	10.166	75.965	64.494	1.00	9.59	B	C
	ATOM	4302	CD1	LEU	B	635	11.163	76.744	65.331	1.00	8.88	B	C
30	ATOM	4303	CD2	LEU	B	635	9.254	76.909	63.726	1.00	8.81	B	C
	ATOM	4304	C	LEU	B	635	11.036	73.135	65.119	1.00	15.11	B	C
	ATOM	4305	O	LEU	B	635	11.126	73.341	66.323	1.00	16.54	B	O
	ATOM	4306	N	ASP	B	636	10.254	72.189	64.606	1.00	13.50	B	N
	ATOM	4307	CA	ASP	B	636	9.455	71.308	65.443	1.00	13.56	B	C
35	ATOM	4308	CB	ASP	B	636	8.699	70.313	64.572	1.00	14.22	B	C
	ATOM	4309	CG	ASP	B	636	7.631	69.566	65.339	1.00	16.55	B	C
	ATOM	4310	OD1	ASP	B	636	6.797	70.229	65.992	1.00	18.19	B	O
	ATOM	4311	OD2	ASP	B	636	7.620	68.321	65.289	1.00	16.75	B	O
	ATOM	4312	C	ASP	B	636	10.326	70.540	66.440	1.00	15.06	B	C
40	ATOM	4313	O	ASP	B	636	10.006	70.454	67.630	1.00	15.75	B	O
	ATOM	4314	N	PHE	B	637	11.417	69.968	65.941	1.00	13.59	B	N
	ATOM	4315	CA	PHE	B	637	12.343	69.214	66.768	1.00	13.57	B	C
	ATOM	4316	CB	PHE	B	637	13.430	68.567	65.894	1.00	11.16	B	C
	ATOM	4317	CG	PHE	B	637	12.950	67.401	65.067	1.00	10.78	B	C
45	ATOM	4318	CD1	PHE	B	637	11.622	66.996	65.096	1.00	10.53	B	C
	ATOM	4319	CD2	PHE	B	637	13.845	66.694	64.259	1.00	13.21	B	C
	ATOM	4320	CE1	PHE	B	637	11.188	65.899	64.333	1.00	12.12	B	C
	ATOM	4321	CE2	PHE	B	637	13.421	65.595	63.494	1.00	11.56	B	C
	ATOM	4322	CZ	PHE	B	637	12.094	65.199	63.532	1.00	10.49	B	C
50	ATOM	4323	C	PHE	B	637	13.000	70.152	67.788	1.00	14.63	B	C
	ATOM	4324	O	PHE	B	637	13.189	69.788	68.947	1.00	15.19	B	O
	ATOM	4325	N	LEU	B	638	13.341	71.359	67.348	1.00	13.62	B	N
	ATOM	4326	CA	LEU	B	638	13.984	72.335	68.215	1.00	14.74	B	C
	ATOM	4327	CB	LEU	B	638	14.417	73.559	67.406	1.00	15.49	B	C
55	ATOM	4328	CG	LEU	B	638	15.016	74.686	68.249	1.00	17.56	B	C
	ATOM	4329	CD1	LEU	B	638	16.368	74.250	68.777	1.00	17.28	B	C
	ATOM	4330	CD2	LEU	B	638	15.151	75.944	67.422	1.00	17.44	B	C
	ATOM	4331	C	LEU	B	638	13.070	72.783	69.346	1.00	15.30	B	C
	ATOM	4332	O	LEU	B	638	13.491	72.876	70.497	1.00	16.30	B	O
60	ATOM	4333	N	GLN	B	639	11.820	73.078	69.011	1.00	14.95	B	N
	ATOM	4334	CA	GLN	B	639	10.853	73.515	70.006	1.00	15.18	B	C
	ATOM	4335	CB	GLN	B	639	9.558	73.941	69.322	1.00	12.41	B	C
	ATOM	4336	CG	GLN	B	639	9.678	75.272	68.597	1.00	13.11	B	C
	ATOM	4337	CD	GLN	B	639	8.399	75.666	67.891	1.00	15.63	B	C
65	ATOM	4338	OE1	GLN	B	639	7.570	74.816	67.563	1.00	16.28	B	O
	ATOM	4339	NE2	GLN	B	639	8.231	76.959	67.654	1.00	16.83	B	N
	ATOM	4340	C	GLN	B	639	10.568	72.413	71.025	1.00	15.81	B	C
	ATOM	4341	O	GLN	B	639	10.530	72.666	72.225	1.00	16.33	B	O
	ATOM	4342	N	LYS	B	640	10.381	71.191	70.538	1.00	14.87	B	N

	ATOM	4343	CA	LYS	B	640	10.097	70.053	71.402	1.00	14.69	B	C
	ATOM	4344	CB	LYS	B	640	9.755	68.829	70.552	1.00	14.02	B	C
	ATOM	4345	CG	LYS	B	640	8.356	68.845	69.955	1.00	13.67	B	C
	ATOM	4346	CD	LYS	B	640	8.260	67.784	68.885	1.00	11.45	B	C
5	ATOM	4347	CE	LYS	B	640	6.873	67.663	68.307	1.00	8.70	B	C
	ATOM	4348	NZ	LYS	B	640	6.909	66.644	67.214	1.00	8.39	B	N
	ATOM	4349	C	LYS	B	640	11.243	69.699	72.362	1.00	14.01	B	C
	ATOM	4350	O	LYS	B	640	11.024	69.014	73.358	1.00	13.63	B	O
10	ATOM	4351	N	GLY	B	641	12.460	70.143	72.055	1.00	13.36	B	N
	ATOM	4352	CA	GLY	B	641	13.583	69.853	72.925	1.00	11.11	B	C
	ATOM	4353	C	GLY	B	641	14.591	68.807	72.459	1.00	12.90	B	C
	ATOM	4354	O	GLY	B	641	15.479	68.444	73.222	1.00	12.20	B	O
	ATOM	4355	N	LEU	B	642	14.472	68.297	71.233	1.00	12.83	B	N
15	ATOM	4356	CA	LEU	B	642	15.441	67.310	70.761	1.00	11.59	B	C
	ATOM	4357	CB	LEU	B	642	15.037	66.731	69.403	1.00	12.27	B	C
	ATOM	4358	CG	LEU	B	642	13.691	66.008	69.167	1.00	16.75	B	C
	ATOM	4359	CD1	LEU	B	642	13.965	64.610	68.645	1.00	14.36	B	C
	ATOM	4360	CD2	LEU	B	642	12.841	65.951	70.413	1.00	16.51	B	C
20	ATOM	4361	C	LEU	B	642	16.797	68.005	70.641	1.00	12.35	B	C
	ATOM	4362	O	LEU	B	642	16.868	69.210	70.401	1.00	12.37	B	O
	ATOM	4363	N	MET	B	643	17.872	67.247	70.820	1.00	12.90	B	N
	ATOM	4364	CA	MET	B	643	19.229	67.782	70.750	1.00	14.91	B	C
	ATOM	4365	CB	MET	B	643	20.199	66.765	71.370	1.00	18.70	B	C
25	ATOM	4366	CG	MET	B	643	21.262	67.370	72.264	1.00	20.79	B	C
	ATOM	4367	SD	MET	B	643	22.655	67.973	71.300	1.00	29.86	B	S
	ATOM	4368	CE	MET	B	643	23.951	67.983	72.558	1.00	25.70	B	C
	ATOM	4369	C	MET	B	643	19.625	68.097	69.298	1.00	14.94	B	C
	ATOM	4370	O	MET	B	643	20.262	67.280	68.623	1.00	12.78	B	O
30	ATOM	4371	N	ILE	B	644	19.288	69.305	68.854	1.00	15.10	B	N
	ATOM	4372	CA	ILE	B	644	19.526	69.735	67.472	1.00	16.74	B	C
	ATOM	4373	CB	ILE	B	644	18.224	70.363	66.896	1.00	17.74	B	C
	ATOM	4374	CG2	ILE	B	644	18.457	70.849	65.493	1.00	18.06	B	C
	ATOM	4375	CG1	ILE	B	644	17.071	69.360	66.957	1.00	16.61	B	C
	ATOM	4376	CD1	ILE	B	644	17.321	68.092	66.214	1.00	18.04	B	C
35	ATOM	4377	C	ILE	B	644	20.665	70.732	67.183	1.00	17.26	B	C
	ATOM	4378	O	ILE	B	644	20.869	71.695	67.925	1.00	16.97	B	O
	ATOM	4379	N	SER	B	645	21.400	70.499	66.095	1.00	14.70	B	N
	ATOM	4380	CA	SER	B	645	22.447	71.431	65.670	1.00	13.77	B	C
40	ATOM	4381	CB	SER	B	645	23.854	70.910	66.019	1.00	12.97	B	C
	ATOM	4382	OG	SER	B	645	24.295	69.873	65.157	1.00	13.59	B	O
	ATOM	4383	C	SER	B	645	22.296	71.644	64.153	1.00	13.71	B	C
	ATOM	4384	O	SER	B	645	21.724	70.801	63.457	1.00	12.39	B	O
	ATOM	4385	N	LEU	B	646	22.785	72.774	63.646	1.00	13.66	B	N
45	ATOM	4386	CA	LEU	B	646	22.688	73.076	62.221	1.00	13.46	B	C
	ATOM	4387	CB	LEU	B	646	22.318	74.548	62.009	1.00	11.63	B	C
	ATOM	4388	CG	LEU	B	646	20.829	74.914	62.095	1.00	9.98	B	C
	ATOM	4389	CD1	LEU	B	646	20.688	76.412	62.015	1.00	4.29	B	C
	ATOM	4390	CD2	LEU	B	646	20.026	74.247	60.976	1.00	4.82	B	C
50	ATOM	4391	C	LEU	B	646	24.000	72.775	61.513	1.00	15.06	B	C
	ATOM	4392	O	LEU	B	646	25.078	73.049	62.038	1.00	14.88	B	O
	ATOM	4393	N	SER	B	647	23.906	72.194	60.320	1.00	16.96	B	N
	ATOM	4394	CA	SER	B	647	25.103	71.865	59.552	1.00	16.04	B	C
	ATOM	4395	CB	SER	B	647	25.449	70.383	59.702	1.00	12.42	B	C
55	ATOM	4396	OG	SER	B	647	24.354	69.571	59.333	1.00	13.55	B	O
	ATOM	4397	C	SER	B	647	24.975	72.221	58.073	1.00	17.39	B	C
	ATOM	4398	O	SER	B	647	23.881	72.425	57.548	1.00	17.58	B	O
	ATOM	4399	N	THR	B	648	26.124	72.260	57.411	1.00	17.40	B	N
60	ATOM	4400	CA	THR	B	648	26.238	72.624	56.008	1.00	17.37	B	C
	ATOM	4401	CB	THR	B	648	27.585	73.375	55.832	1.00	18.58	B	C
	ATOM	4402	OG1	THR	B	648	27.376	74.588	55.109	1.00	22.21	B	O
	ATOM	4403	CG2	THR	B	648	28.606	72.511	55.146	1.00	16.87	B	C
	ATOM	4404	C	THR	B	648	26.110	71.462	54.994	1.00	17.22	B	C
	ATOM	4405	O	THR	B	648	25.455	71.604	53.957	1.00	16.25	B	O
65	ATOM	4406	N	ASP	B	649	26.721	70.320	55.307	1.00	16.97	B	N
	ATOM	4407	CA	ASP	B	649	26.709	69.140	54.433	1.00	17.18	B	C
	ATOM	4408	CB	ASP	B	649	25.297	68.867	53.907	1.00	16.57	B	C
	ATOM	4409	CG	ASP	B	649	25.088	67.418	53.516	1.00	16.65	B	C
	ATOM	4410	OD1	ASP	B	649	26.011	66.592	53.718	1.00	18.29	B	O

	ATOM	4411	OD2	ASP	B	649	23.991	67.099	53.006	1.00	15.84	B	O
	ATOM	4412	C	ASP	B	649	27.685	69.301	53.257	1.00	17.86	B	C
	ATOM	4413	O	ASP	B	649	28.761	68.701	53.263	1.00	17.41	B	O
5	ATOM	4414	N	ASP	B	650	27.317	70.113	52.261	1.00	18.61	B	N
	ATOM	4415	CA	ASP	B	650	28.162	70.349	51.078	1.00	18.78	B	C
	ATOM	4416	CB	ASP	B	650	27.765	69.419	49.922	1.00	20.23	B	C
	ATOM	4417	CG	ASP	B	650	27.918	67.952	50.267	1.00	21.79	B	C
	ATOM	4418	OD1	ASP	B	650	26.945	67.360	50.764	1.00	22.62	B	O
10	ATOM	4419	OD2	ASP	B	650	29.008	67.385	50.042	1.00	24.07	B	O
	ATOM	4420	C	ASP	B	650	28.049	71.793	50.592	1.00	18.16	B	C
	ATOM	4421	O	ASP	B	650	27.273	72.089	49.687	1.00	18.07	B	O
	ATOM	4422	N	PRO	B	651	28.843	72.704	51.173	1.00	17.29	B	N
	ATOM	4423	CD	PRO	B	651	29.839	72.437	52.221	1.00	17.69	B	C
	ATOM	4424	CA	PRO	B	651	28.815	74.119	50.789	1.00	18.48	B	C
15	ATOM	4425	CB	PRO	B	651	29.998	74.728	51.546	1.00	18.05	B	C
	ATOM	4426	CG	PRO	B	651	30.263	73.805	52.653	1.00	18.72	B	C
	ATOM	4427	C	PRO	B	651	28.929	74.350	49.284	1.00	18.66	B	C
	ATOM	4428	O	PRO	B	651	28.216	75.179	48.721	1.00	19.23	B	O
	ATOM	4429	N	MET	B	652	29.831	73.620	48.639	1.00	19.45	B	N
20	ATOM	4430	CA	MET	B	652	30.036	73.760	47.202	1.00	22.27	B	C
	ATOM	4431	CB	MET	B	652	31.103	72.778	46.721	1.00	22.81	B	C
	ATOM	4432	CG	MET	B	652	31.495	72.991	45.269	1.00	27.04	B	C
	ATOM	4433	SD	MET	B	652	32.932	72.032	44.800	1.00	31.77	B	S
	ATOM	4434	CE	MET	B	652	32.257	70.399	44.777	1.00	27.26	B	C
25	ATOM	4435	C	MET	B	652	28.759	73.555	46.388	1.00	21.04	B	C
	ATOM	4436	O	MET	B	652	28.512	74.277	45.425	1.00	20.82	B	O
	ATOM	4437	N	GLN	B	653	27.953	72.577	46.789	1.00	21.30	B	N
	ATOM	4438	CA	GLN	B	653	26.708	72.262	46.098	1.00	21.67	B	C
	ATOM	4439	CB	GLN	B	653	26.339	70.791	46.324	1.00	22.81	B	C
30	ATOM	4440	CG	GLN	B	653	26.867	69.818	45.298	1.00	27.81	B	C
	ATOM	4441	CD	GLN	B	653	28.343	69.522	45.491	1.00	32.54	B	C
	ATOM	4442	OE1	GLN	B	653	29.151	69.693	44.571	1.00	34.58	B	O
	ATOM	4443	NE2	GLN	B	653	28.707	69.080	46.692	1.00	33.45	B	N
	ATOM	4444	C	GLN	B	653	25.509	73.116	46.514	1.00	22.09	B	C
35	ATOM	4445	O	GLN	B	653	24.626	73.379	45.696	1.00	22.78	B	O
	ATOM	4446	N	PHE	B	654	25.463	73.559	47.770	1.00	21.17	B	N
	ATOM	4447	CA	PHE	B	654	24.296	74.311	48.231	1.00	19.49	B	C
	ATOM	4448	CB	PHE	B	654	23.620	73.541	49.367	1.00	21.14	B	C
	ATOM	4449	CG	PHE	B	654	23.547	72.054	49.149	1.00	20.48	B	C
40	ATOM	4450	CD1	PHE	B	654	24.269	71.188	49.961	1.00	18.89	B	C
	ATOM	4451	CD2	PHE	B	654	22.734	71.519	48.152	1.00	19.27	B	C
	ATOM	4452	CE1	PHE	B	654	24.184	69.806	49.786	1.00	20.25	B	C
	ATOM	4453	CE2	PHE	B	654	22.640	70.143	47.966	1.00	20.08	B	C
	ATOM	4454	CZ	PHE	B	654	23.368	69.280	48.788	1.00	21.34	B	C
45	ATOM	4455	C	PHE	B	654	24.402	75.770	48.674	1.00	18.77	B	C
	ATOM	4456	O	PHE	B	654	23.383	76.445	48.786	1.00	17.88	B	O
	ATOM	4457	N	HIS	B	655	25.600	76.281	48.916	1.00	20.22	B	N
	ATOM	4458	CA	HIS	B	655	25.686	77.654	49.411	1.00	24.03	B	C
	ATOM	4459	CB	HIS	B	655	26.464	77.636	50.731	1.00	22.86	B	C
50	ATOM	4460	CG	HIS	B	655	25.909	76.657	51.723	1.00	22.86	B	C
	ATOM	4461	CD2	HIS	B	655	26.034	75.313	51.810	1.00	20.56	B	C
	ATOM	4462	ND1	HIS	B	655	25.039	77.027	52.728	1.00	24.16	B	N
	ATOM	4463	CE1	HIS	B	655	24.650	75.950	53.388	1.00	21.19	B	C
	ATOM	4464	NE2	HIS	B	655	25.239	74.897	52.851	1.00	20.02	B	N
55	ATOM	4465	C	HIS	B	655	26.207	78.737	48.469	1.00	24.63	B	C
	ATOM	4466	O	HIS	B	655	27.021	78.476	47.588	1.00	26.43	B	O
	ATOM	4467	N	PHE	B	656	25.722	79.960	48.674	1.00	26.76	B	N
	ATOM	4468	CA	PHE	B	656	26.085	81.102	47.835	1.00	29.45	B	C
	ATOM	4469	CB	PHE	B	656	24.838	81.928	47.511	1.00	28.25	B	C
60	ATOM	4470	CG	PHE	B	656	23.796	81.186	46.728	1.00	29.43	B	C
	ATOM	4471	CD1	PHE	B	656	22.647	80.720	47.347	1.00	29.68	B	C
	ATOM	4472	CD2	PHE	B	656	23.950	80.969	45.363	1.00	31.84	B	C
	ATOM	4473	CE1	PHE	B	656	21.667	80.050	46.620	1.00	29.16	B	C
	ATOM	4474	CE2	PHE	B	656	22.970	80.297	44.628	1.00	30.41	B	C
65	ATOM	4475	CZ	PHE	B	656	21.831	79.840	45.258	1.00	29.08	B	C
	ATOM	4476	C	PHE	B	656	27.141	82.062	48.377	1.00	31.91	B	C
	ATOM	4477	O	PHE	B	656	27.657	82.886	47.620	1.00	33.50	B	O
	ATOM	4478	N	THR	B	657	27.469	81.973	49.664	1.00	32.62	B	N

5	ATOM	4479	CA	THR	B	657	28.433	82.901	50.250	1.00	33.49	B	C
	ATOM	4480	CB	THR	B	657	27.816	83.636	51.448	1.00	33.97	B	C
	ATOM	4481	OG1	THR	B	657	28.187	82.962	52.660	1.00	33.74	B	O
	ATOM	4482	CG2	THR	B	657	26.293	83.669	51.331	1.00	30.36	B	C
	ATOM	4483	C	THR	B	657	29.735	82.269	50.715	1.00	36.44	B	C
	ATOM	4484	O	THR	B	657	29.907	81.051	50.628	1.00	37.05	B	O
	ATOM	4485	N	LYS	B	658	30.643	83.111	51.218	1.00	37.72	B	N
10	ATOM	4486	CA	LYS	B	658	31.949	82.659	51.708	1.00	38.74	B	C
	ATOM	4487	CB	LYS	B	658	32.948	83.823	51.734	1.00	41.12	B	C
	ATOM	4488	CG	LYS	B	658	33.390	84.317	50.355	1.00	44.99	B	C
	ATOM	4489	CD	LYS	B	658	34.737	83.708	49.929	1.00	47.47	B	C
	ATOM	4490	CE	LYS	B	658	34.806	83.477	48.413	1.00	47.53	B	C
	ATOM	4491	NZ	LYS	B	658	34.749	82.034	48.051	1.00	45.70	B	N
	ATOM	4492	C	LYS	B	658	31.822	82.081	53.110	1.00	37.96	B	C
15	ATOM	4493	O	LYS	B	658	32.753	81.463	53.629	1.00	38.69	B	O
	ATOM	4494	N	GLU	B	659	30.664	82.289	53.723	1.00	37.14	B	N
	ATOM	4495	CA	GLU	B	659	30.423	81.784	55.065	1.00	35.58	B	C
	ATOM	4496	CB	GLU	B	659	30.323	82.955	56.044	1.00	37.95	B	C
	ATOM	4497	CG	GLU	B	659	31.586	83.811	56.084	1.00	40.47	B	C
	ATOM	4498	CD	GLU	B	659	31.588	84.801	57.233	1.00	42.88	B	C
	ATOM	4499	OE1	GLU	B	659	31.905	84.391	58.372	1.00	43.54	B	O
20	ATOM	4500	OE2	GLU	B	659	31.273	85.989	56.999	1.00	45.46	B	O
	ATOM	4501	C	GLU	B	659	29.143	80.955	55.076	1.00	32.51	B	C
	ATOM	4502	O	GLU	B	659	28.101	81.392	55.569	1.00	31.45	B	O
	ATOM	4503	N	PRO	B	660	29.210	79.738	54.511	1.00	30.56	B	N
	ATOM	4504	CD	PRO	B	660	30.421	79.184	53.877	1.00	29.67	B	C
	ATOM	4505	CA	PRO	B	660	28.072	78.813	54.434	1.00	27.12	B	C
	ATOM	4506	CB	PRO	B	660	28.649	77.576	53.737	1.00	26.58	B	C
30	ATOM	4507	CG	PRO	B	660	30.136	77.717	53.835	1.00	28.57	B	C
	ATOM	4508	C	PRO	B	660	27.385	78.467	55.764	1.00	24.05	B	C
	ATOM	4509	O	PRO	B	660	26.164	78.323	55.800	1.00	22.69	B	O
	ATOM	4510	N	LEU	B	661	28.152	78.329	56.847	1.00	21.90	B	N
	ATOM	4511	CA	LEU	B	661	27.569	78.002	58.151	1.00	19.39	B	C
	ATOM	4512	CB	LEU	B	661	28.660	77.713	59.188	1.00	19.50	B	C
	ATOM	4513	CG	LEU	B	661	28.483	76.573	60.212	1.00	18.38	B	C
35	ATOM	4514	CD1	LEU	B	661	28.850	77.072	61.588	1.00	15.17	B	C
	ATOM	4515	CD2	LEU	B	661	27.072	76.031	60.204	1.00	14.69	B	C
	ATOM	4516	C	LEU	B	661	26.694	79.151	58.642	1.00	19.08	B	C
	ATOM	4517	O	LEU	B	661	25.580	78.928	59.122	1.00	18.48	B	O
	ATOM	4518	N	MET	B	662	27.199	80.375	58.518	1.00	19.24	B	N
	ATOM	4519	CA	MET	B	662	26.451	81.562	58.933	1.00	20.36	B	C
	ATOM	4520	CB	MET	B	662	27.316	82.820	58.796	1.00	22.79	B	C
40	ATOM	4521	CG	MET	B	662	28.450	82.919	59.817	1.00	28.50	B	C
	ATOM	4522	SD	MET	B	662	27.889	82.835	61.554	1.00	36.57	B	S
	ATOM	4523	CE	MET	B	662	26.680	84.175	61.594	1.00	33.20	B	C
	ATOM	4524	C	MET	B	662	25.216	81.690	58.049	1.00	18.53	B	C
	ATOM	4525	O	MET	B	662	24.169	82.177	58.476	1.00	15.92	B	O
	ATOM	4526	N	GLU	B	663	25.355	81.242	56.807	1.00	18.03	B	N
	ATOM	4527	CA	GLU	B	663	24.268	81.278	55.836	1.00	16.81	B	C
50	ATOM	4528	CB	GLU	B	663	24.799	80.887	54.455	1.00	19.10	B	C
	ATOM	4529	CG	GLU	B	663	23.883	81.220	53.291	1.00	20.34	B	C
	ATOM	4530	CD	GLU	B	663	24.479	80.791	51.952	1.00	22.49	B	C
	ATOM	4531	OE1	GLU	B	663	25.729	80.821	51.829	1.00	19.95	B	O
	ATOM	4532	OE2	GLU	B	663	23.696	80.422	51.037	1.00	19.92	B	O
	ATOM	4533	C	GLU	B	663	23.164	80.317	56.259	1.00	15.87	B	C
	ATOM	4534	O	GLU	B	663	21.986	80.676	56.223	1.00	14.23	B	O
55	ATOM	4535	N	GLU	B	664	23.544	79.099	56.654	1.00	15.14	B	N
	ATOM	4536	CA	GLU	B	664	22.560	78.107	57.104	1.00	17.08	B	C
	ATOM	4537	CB	GLU	B	664	23.227	76.779	57.474	1.00	16.40	B	C
	ATOM	4538	CG	GLU	B	664	23.506	75.870	56.293	1.00	24.01	B	C
	ATOM	4539	CD	GLU	B	664	22.400	74.863	56.006	1.00	23.21	B	C
	ATOM	4540	OE1	GLU	B	664	21.276	75.008	56.542	1.00	23.79	B	O
	ATOM	4541	OE2	GLU	B	664	22.666	73.921	55.226	1.00	25.92	B	O
60	ATOM	4542	C	GLU	B	664	21.807	78.625	58.323	1.00	16.58	B	C
	ATOM	4543	O	GLU	B	664	20.592	78.460	58.422	1.00	17.27	B	O
	ATOM	4544	N	TYR	B	665	22.540	79.238	59.252	1.00	14.93	B	N
	ATOM	4545	CA	TYR	B	665	21.944	79.787	60.465	1.00	13.64	B	C
	ATOM	4546	CB	TYR	B	665	23.033	80.290	61.421	1.00	14.59	B	C

	ATOM	4547	CG	TYR	B	665	23.515	79.263	62.425	1.00	16.09	B	C
	ATOM	4548	CD1	TYR	B	665	24.512	78.347	62.090	1.00	14.67	B	C
	ATOM	4549	CE1	TYR	B	665	24.967	77.404	63.020	1.00	16.09	B	C
5	ATOM	4550	CD2	TYR	B	665	22.983	79.214	63.723	1.00	17.28	B	C
	ATOM	4551	CE2	TYR	B	665	23.436	78.272	64.661	1.00	15.50	B	C
	ATOM	4552	CZ	TYR	B	665	24.426	77.372	64.301	1.00	16.18	B	C
	ATOM	4553	OH	TYR	B	665	24.876	76.427	65.201	1.00	15.48	B	O
	ATOM	4554	C	TYR	B	665	21.013	80.941	60.122	1.00	13.63	B	C
10	ATOM	4555	O	TYR	B	665	19.914	81.036	60.659	1.00	14.03	B	O
	ATOM	4556	N	ALA	B	666	21.456	81.816	59.220	1.00	14.19	B	N
	ATOM	4557	CA	ALA	B	666	20.667	82.981	58.807	1.00	14.43	B	C
	ATOM	4558	CB	ALA	B	666	21.481	83.854	57.864	1.00	13.04	B	C
	ATOM	4559	C	ALA	B	666	19.321	82.660	58.167	1.00	13.23	B	C
	ATOM	4560	O	ALA	B	666	18.306	83.222	58.546	1.00	13.14	B	O
15	ATOM	4561	N	ILE	B	667	19.297	81.759	57.196	1.00	14.85	B	N
	ATOM	4562	CA	ILE	B	667	18.023	81.454	56.560	1.00	15.82	B	C
	ATOM	4563	CB	ILE	B	667	18.197	80.621	55.256	1.00	16.56	B	C
	ATOM	4564	CG2	ILE	B	667	18.946	79.342	55.544	1.00	20.48	B	C
	ATOM	4565	CG1	ILE	B	667	16.826	80.302	54.656	1.00	16.86	B	C
20	ATOM	4566	CD1	ILE	B	667	16.887	79.430	53.426	1.00	19.90	B	C
	ATOM	4567	C	ILE	B	667	17.110	80.716	57.521	1.00	15.64	B	C
	ATOM	4568	O	ILE	B	667	15.890	80.902	57.486	1.00	15.23	B	O
	ATOM	4569	N	ALA	B	668	17.692	79.877	58.374	1.00	13.47	B	N
25	ATOM	4570	CA	ALA	B	668	16.893	79.139	59.351	1.00	14.79	B	C
	ATOM	4571	CB	ALA	B	668	17.781	78.184	60.159	1.00	12.92	B	C
	ATOM	4572	C	ALA	B	668	16.194	80.135	60.282	1.00	14.94	B	C
	ATOM	4573	O	ALA	B	668	15.000	80.009	60.562	1.00	14.84	B	O
	ATOM	4574	N	ALA	B	669	16.947	81.131	60.743	1.00	15.18	B	N
30	ATOM	4575	CA	ALA	B	669	16.414	82.159	61.630	1.00	15.21	B	C
	ATOM	4576	CB	ALA	B	669	17.537	83.072	62.110	1.00	14.62	B	C
	ATOM	4577	C	ALA	B	669	15.347	82.983	60.921	1.00	16.33	B	C
	ATOM	4578	O	ALA	B	669	14.331	83.337	61.518	1.00	16.66	B	O
	ATOM	4579	N	GLN	B	670	15.580	83.286	59.646	1.00	16.18	B	N
35	ATOM	4580	CA	GLN	B	670	14.631	84.076	58.868	1.00	16.89	B	C
	ATOM	4581	CB	GLN	B	670	15.222	84.448	57.502	1.00	17.69	B	C
	ATOM	4582	CG	GLN	B	670	16.584	85.104	57.558	1.00	21.86	B	C
	ATOM	4583	CD	GLN	B	670	16.506	86.608	57.697	1.00	24.48	B	C
	ATOM	4584	OE1	GLN	B	670	15.510	87.148	58.188	1.00	26.37	B	O
40	ATOM	4585	NE2	GLN	B	670	17.559	87.297	57.266	1.00	24.66	B	N
	ATOM	4586	C	GLN	B	670	13.298	83.363	58.655	1.00	16.86	B	C
	ATOM	4587	O	GLN	B	670	12.252	83.868	59.065	1.00	17.81	B	O
	ATOM	4588	N	VAL	B	671	13.318	82.192	58.025	1.00	15.31	B	N
	ATOM	4589	CA	VAL	B	671	12.062	81.499	57.775	1.00	16.80	B	C
45	ATOM	4590	CB	VAL	B	671	12.166	80.516	56.544	1.00	16.47	B	C
	ATOM	4591	CG1	VAL	B	671	13.470	80.718	55.814	1.00	16.16	B	C
	ATOM	4592	CG2	VAL	B	671	12.004	79.080	56.975	1.00	17.64	B	C
	ATOM	4593	C	VAL	B	671	11.448	80.792	58.989	1.00	18.15	B	C
	ATOM	4594	O	VAL	B	671	10.223	80.702	59.093	1.00	18.16	B	O
50	ATOM	4595	N	PHE	B	672	12.267	80.305	59.915	1.00	18.96	B	N
	ATOM	4596	CA	PHE	B	672	11.706	79.641	61.089	1.00	19.89	B	C
	ATOM	4597	CB	PHE	B	672	12.607	78.495	61.533	1.00	20.65	B	C
	ATOM	4598	CG	PHE	B	672	12.574	77.328	60.599	1.00	21.51	B	C
	ATOM	4599	CD1	PHE	B	672	11.367	76.720	60.276	1.00	21.82	B	C
55	ATOM	4600	CD2	PHE	B	672	13.738	76.861	60.002	1.00	23.60	B	C
	ATOM	4601	CE1	PHE	B	672	11.318	75.662	59.367	1.00	22.76	B	C
	ATOM	4602	CE2	PHE	B	672	13.700	75.804	59.091	1.00	23.75	B	C
	ATOM	4603	CZ	PHE	B	672	12.487	75.205	58.773	1.00	22.43	B	C
	ATOM	4604	C	PHE	B	672	11.466	80.613	62.235	1.00	20.15	B	C
60	ATOM	4605	O	PHE	B	672	10.930	80.239	63.269	1.00	21.88	B	O
	ATOM	4606	N	LYS	B	673	11.858	81.865	62.027	1.00	20.29	B	N
	ATOM	4607	CA	LYS	B	673	11.676	82.934	63.008	1.00	21.63	B	C
	ATOM	4608	CB	LYS	B	673	10.184	83.283	63.137	1.00	21.69	B	C
	ATOM	4609	CG	LYS	B	673	9.763	84.478	62.282	1.00	26.99	B	C
65	ATOM	4610	CD	LYS	B	673	8.376	84.317	61.685	1.00	29.28	B	C
	ATOM	4611	CE	LYS	B	673	8.069	82.854	61.355	1.00	35.26	B	C
	ATOM	4612	NZ	LYS	B	673	6.752	82.654	60.649	1.00	37.67	B	N
	ATOM	4613	C	LYS	B	673	12.266	82.623	64.384	1.00	20.79	B	C
	ATOM	4614	O	LYS	B	673	11.580	82.706	65.405	1.00	19.58	B	O

5	ATOM	4615	N	LEU B 674	13.551	82.284	64.392	1.00	18.87	B	N
	ATOM	4616	CA	LEU B 674	14.279	81.956	65.615	1.00	17.72	B	C
	ATOM	4617	CB	LEU B 674	15.532	81.143	65.265	1.00	14.77	B	C
	ATOM	4618	CG	LEU B 674	15.479	79.613	65.189	1.00	16.34	B	C
	ATOM	4619	CD1	LEU B 674	14.074	79.110	64.931	1.00	14.15	B	C
	ATOM	4620	CD2	LEU B 674	16.422	79.163	64.099	1.00	17.42	B	C
	ATOM	4621	C	LEU B 674	14.712	83.208	66.372	1.00	16.57	B	C
10	ATOM	4622	O	LEU B 674	15.127	84.187	65.756	1.00	18.14	B	O
	ATOM	4623	N	SER B 675	14.616	83.179	67.699	1.00	15.37	B	N
	ATOM	4624	CA	SER B 675	15.059	84.312	68.523	1.00	14.69	B	C
	ATOM	4625	CB	SER B 675	14.454	84.226	69.934	1.00	15.55	B	C
	ATOM	4626	OG	SER B 675	14.918	83.074	70.629	1.00	13.78	B	O
15	ATOM	4627	C	SER B 675	16.574	84.148	68.608	1.00	14.49	B	C
	ATOM	4628	O	SER B 675	17.095	83.105	68.200	1.00	11.67	B	O
	ATOM	4629	N	THR B 676	17.295	85.143	69.118	1.00	15.62	B	N
	ATOM	4630	CA	THR B 676	18.743	84.976	69.204	1.00	18.58	B	C
20	ATOM	4631	CB	THR B 676	19.490	86.326	69.413	1.00	19.62	B	C
	ATOM	4632	OG1	THR B 676	20.214	86.290	70.645	1.00	25.69	B	O
	ATOM	4633	CG2	THR B 676	18.526	87.490	69.405	1.00	21.59	B	C
	ATOM	4634	C	THR B 676	19.100	83.976	70.310	1.00	18.54	B	C
	ATOM	4635	O	THR B 676	20.202	83.421	70.324	1.00	20.62	B	O
25	ATOM	4636	N	CYS B 677	18.160	83.729	71.223	1.00	17.47	B	N
	ATOM	4637	CA	CYS B 677	18.385	82.755	72.288	1.00	16.43	B	C
	ATOM	4638	CB	CYS B 677	17.349	82.903	73.414	1.00	15.70	B	C
	ATOM	4639	SG	CYS B 677	17.555	81.708	74.779	1.00	17.19	B	S
	ATOM	4640	C	CYS B 677	18.254	81.379	71.649	1.00	15.98	B	C
30	ATOM	4641	O	CYS B 677	18.970	80.444	72.012	1.00	13.95	B	O
	ATOM	4642	N	ASP B 678	17.325	81.265	70.699	1.00	15.39	B	N
	ATOM	4643	CA	ASP B 678	17.102	80.017	69.963	1.00	15.73	B	C
	ATOM	4644	CB	ASP B 678	15.949	80.175	68.957	1.00	18.90	B	C
	ATOM	4645	CG	ASP B 678	14.576	80.228	69.621	1.00	22.39	B	C
35	ATOM	4646	OD1	ASP B 678	14.421	79.657	70.727	1.00	23.61	B	O
	ATOM	4647	OD2	ASP B 678	13.650	80.836	69.031	1.00	19.08	B	O
	ATOM	4648	C	ASP B 678	18.372	79.689	69.183	1.00	14.93	B	C
	ATOM	4649	O	ASP B 678	18.826	78.550	69.154	1.00	15.13	B	O
	ATOM	4650	N	MET B 679	18.943	80.710	68.553	1.00	14.48	B	N
40	ATOM	4651	CA	MET B 679	20.152	80.558	67.759	1.00	14.93	B	C
	ATOM	4652	CB	MET B 679	20.443	81.855	67.008	1.00	15.83	B	C
	ATOM	4653	CG	MET B 679	19.409	82.208	65.950	1.00	20.48	B	C
	ATOM	4654	SD	MET B 679	19.906	83.665	65.007	1.00	26.80	B	S
	ATOM	4655	CE	MET B 679	18.746	84.863	65.589	1.00	26.05	B	C
45	ATOM	4656	C	MET B 679	21.363	80.188	68.595	1.00	14.76	B	C
	ATOM	4657	O	MET B 679	22.176	79.368	68.191	1.00	15.27	B	O
	ATOM	4658	N	CYS B 680	21.499	80.810	69.759	1.00	16.24	B	N
	ATOM	4659	CA	CYS B 680	22.635	80.521	70.623	1.00	16.23	B	C
	ATOM	4660	CB	CYS B 680	22.776	81.616	71.678	1.00	17.42	B	C
50	ATOM	4661	SG	CYS B 680	23.264	83.211	70.954	1.00	23.22	B	S
	ATOM	4662	C	CYS B 680	22.523	79.144	71.277	1.00	14.90	B	C
	ATOM	4663	O	CYS B 680	23.533	78.549	71.658	1.00	15.26	B	O
	ATOM	4664	N	GLU B 681	21.302	78.633	71.400	1.00	12.86	B	N
	ATOM	4665	CA	GLU B 681	21.106	77.309	71.977	1.00	12.99	B	C
55	ATOM	4666	CB	GLU B 681	19.635	77.076	72.344	1.00	11.97	B	C
	ATOM	4667	CG	GLU B 681	19.422	75.829	73.207	1.00	13.80	B	C
	ATOM	4668	CD	GLU B 681	17.956	75.506	73.506	1.00	15.87	B	C
	ATOM	4669	OE1	GLU B 681	17.051	76.254	73.075	1.00	15.65	B	O
	ATOM	4670	OE2	GLU B 681	17.709	74.485	74.185	1.00	14.38	B	O
60	ATOM	4671	C	GLU B 681	21.561	76.263	70.952	1.00	14.58	B	C
	ATOM	4672	O	GLU B 681	22.180	75.254	71.304	1.00	15.33	B	O
	ATOM	4673	N	VAL B 682	21.259	76.508	69.680	1.00	13.22	B	N
	ATOM	4674	CA	VAL B 682	21.661	75.584	68.622	1.00	11.64	B	C
	ATOM	4675	CB	VAL B 682	21.079	76.010	67.247	1.00	12.39	B	C
65	ATOM	4676	CG1	VAL B 682	21.783	75.260	66.123	1.00	10.45	B	C
	ATOM	4677	CG2	VAL B 682	19.570	75.740	67.216	1.00	7.49	B	C
	ATOM	4678	C	VAL B 682	23.186	75.546	68.543	1.00	11.37	B	C
	ATOM	4679	O	VAL B 682	23.782	74.476	68.423	1.00	13.69	B	O
	ATOM	4680	N	ALA B 683	23.808	76.722	68.620	1.00	9.93	B	N
	ATOM	4681	CA	ALA B 683	25.261	76.847	68.578	1.00	9.85	B	C
	ATOM	4682	CB	ALA B 683	25.653	78.307	68.679	1.00	9.53	B	C

	ATOM	4683	C	ALA	B	683	25.919	76.057	69.703	1.00	11.08	B	C
	ATOM	4684	O	ALA	B	683	26.906	75.357	69.492	1.00	11.25	B	O
	ATOM	4685	N	ARG	B	684	25.371	76.182	70.908	1.00	13.72	B	N
5	ATOM	4686	CA	ARG	B	684	25.900	75.476	72.068	1.00	13.57	B	C
	ATOM	4687	CB	ARG	B	684	25.112	75.869	73.324	1.00	13.52	B	C
	ATOM	4688	CG	ARG	B	684	25.518	75.127	74.580	1.00	14.89	B	C
	ATOM	4689	CD	ARG	B	684	24.898	75.777	75.819	1.00	16.52	B	C
	ATOM	4690	NE	ARG	B	684	25.483	75.251	77.049	1.00	16.96	B	N
10	ATOM	4691	CZ	ARG	B	684	25.093	74.128	77.642	1.00	15.91	B	C
	ATOM	4692	NH1	ARG	B	684	24.110	73.405	77.122	1.00	15.83	B	N
	ATOM	4693	NH2	ARG	B	684	25.707	73.714	78.741	1.00	15.54	B	N
	ATOM	4694	C	ARG	B	684	25.783	73.980	71.827	1.00	13.65	B	C
	ATOM	4695	O	ARG	B	684	26.712	73.218	72.107	1.00	14.92	B	O
15	ATOM	4696	N	ASN	B	685	24.633	73.557	71.315	1.00	12.78	B	N
	ATOM	4697	CA	ASN	B	685	24.412	72.147	71.027	1.00	13.18	B	C
	ATOM	4698	CB	ASN	B	685	23.043	71.947	70.380	1.00	15.86	B	C
	ATOM	4699	CG	ASN	B	685	21.909	72.036	71.375	1.00	18.56	B	C
	ATOM	4700	OD1	ASN	B	685	22.130	72.250	72.564	1.00	20.13	B	O
20	ATOM	4701	ND2	ASN	B	685	20.682	71.871	70.892	1.00	16.45	B	N
	ATOM	4702	C	ASN	B	685	25.483	71.616	70.075	1.00	13.68	B	C
	ATOM	4703	O	ASN	B	685	25.979	70.503	70.237	1.00	13.49	B	O
	ATOM	4704	N	SER	B	686	25.841	72.419	69.077	1.00	14.09	B	N
	ATOM	4705	CA	SER	B	686	26.834	71.996	68.098	1.00	13.83	B	C
25	ATOM	4706	CB	SER	B	686	26.908	73.010	66.938	1.00	10.64	B	C
	ATOM	4707	OG	SER	B	686	27.713	74.137	67.235	1.00	11.40	B	O
	ATOM	4708	C	SER	B	686	28.199	71.771	68.733	1.00	13.81	B	C
	ATOM	4709	O	SER	B	686	28.905	70.828	68.369	1.00	14.43	B	O
	ATOM	4710	N	VAL	B	687	28.569	72.619	69.690	1.00	13.95	B	N
30	ATOM	4711	CA	VAL	B	687	29.853	72.462	70.369	1.00	14.34	B	C
	ATOM	4712	CB	VAL	B	687	30.185	73.681	71.256	1.00	15.89	B	C
	ATOM	4713	CG1	VAL	B	687	31.541	73.479	71.933	1.00	14.11	B	C
	ATOM	4714	CG2	VAL	B	687	30.210	74.952	70.406	1.00	14.65	B	C
	ATOM	4715	C	VAL	B	687	29.836	71.211	71.241	1.00	14.72	B	C
35	ATOM	4716	O	VAL	B	687	30.810	70.467	71.295	1.00	15.84	B	O
	ATOM	4717	N	LEU	B	688	28.721	70.982	71.923	1.00	15.16	B	N
	ATOM	4718	CA	LEU	B	688	28.586	69.812	72.784	1.00	15.56	B	C
	ATOM	4719	CB	LEU	B	688	27.247	69.858	73.543	1.00	13.58	B	C
	ATOM	4720	CG	LEU	B	688	27.082	70.899	74.664	1.00	14.26	B	C
40	ATOM	4721	CD1	LEU	B	688	25.632	70.926	75.144	1.00	13.67	B	C
	ATOM	4722	CD2	LEU	B	688	28.020	70.562	75.809	1.00	12.14	B	C
	ATOM	4723	C	LEU	B	688	28.655	68.523	71.960	1.00	16.04	B	C
	ATOM	4724	O	LEU	B	688	29.255	67.525	72.377	1.00	18.23	B	O
	ATOM	4725	N	GLN	B	689	28.039	68.555	70.784	1.00	15.23	B	N
45	ATOM	4726	CA	GLN	B	689	27.988	67.399	69.899	1.00	14.06	B	C
	ATOM	4727	CB	GLN	B	689	26.921	67.635	68.828	1.00	12.47	B	C
	ATOM	4728	CG	GLN	B	689	26.922	66.604	67.722	1.00	11.28	B	C
	ATOM	4729	CD	GLN	B	689	25.754	66.757	66.780	1.00	11.26	B	C
	ATOM	4730	OE1	GLN	B	689	25.451	65.855	66.004	1.00	13.75	B	O
50	ATOM	4731	NE2	GLN	B	689	25.092	67.898	66.837	1.00	10.62	B	N
	ATOM	4732	C	GLN	B	689	29.306	67.020	69.211	1.00	13.93	B	C
	ATOM	4733	O	GLN	B	689	29.630	65.838	69.084	1.00	12.97	B	O
	ATOM	4734	N	CYS	B	690	30.062	68.024	68.779	1.00	15.86	B	N
	ATOM	4735	CA	CYS	B	690	31.304	67.794	68.049	1.00	17.35	B	C
55	ATOM	4736	CB	CYS	B	690	31.827	69.120	67.502	1.00	16.42	B	C
	ATOM	4737	SG	CYS	B	690	32.614	70.181	68.720	1.00	21.13	B	S
	ATOM	4738	C	CYS	B	690	32.426	67.055	68.771	1.00	19.51	B	C
	ATOM	4739	O	CYS	B	690	32.316	66.730	69.956	1.00	21.25	B	O
	ATOM	4740	N	GLY	B	691	33.507	66.792	68.036	1.00	17.66	B	N
60	ATOM	4741	CA	GLY	B	691	34.642	66.077	68.587	1.00	17.20	B	C
	ATOM	4742	C	GLY	B	691	35.816	66.935	69.017	1.00	18.23	B	C
	ATOM	4743	O	GLY	B	691	36.925	66.427	69.180	1.00	20.48	B	O
	ATOM	4744	N	ILE	B	692	35.586	68.231	69.199	1.00	17.82	B	N
	ATOM	4745	CA	ILE	B	692	36.642	69.142	69.632	1.00	17.28	B	C
65	ATOM	4746	CB	ILE	B	692	36.097	70.581	69.715	1.00	17.60	B	C
	ATOM	4747	CG2	ILE	B	692	37.011	71.458	70.554	1.00	17.31	B	C
	ATOM	4748	CG1	ILE	B	692	35.962	71.152	68.302	1.00	17.96	B	C
	ATOM	4749	CD1	ILE	B	692	35.538	72.620	68.248	1.00	18.23	B	C
	ATOM	4750	C	ILE	B	692	37.148	68.684	71.009	1.00	18.08	B	C

	ATOM	4751	O	ILE	B	692	36.414	68.031	71.752	1.00	17.59	B	O
	ATOM	4752	N	SER	B	693	38.393	69.022	71.348	1.00	18.91	B	N
	ATOM	4753	CA	SER	B	693	38.979	68.615	72.628	1.00	19.51	B	C
	ATOM	4754	CB	SER	B	693	40.460	68.995	72.678	1.00	18.64	B	C
5	ATOM	4755	OG	SER	B	693	40.634	70.383	72.899	1.00	19.40	B	O
	ATOM	4756	C	SER	B	693	38.265	69.169	73.868	1.00	20.10	B	C
	ATOM	4757	O	SER	B	693	37.593	70.208	73.815	1.00	17.80	B	O
	ATOM	4758	N	HIS	B	694	38.417	68.459	74.984	1.00	23.42	B	N
	ATOM	4759	CA	HIS	B	694	37.797	68.855	76.246	1.00	26.08	B	C
10	ATOM	4760	CB	HIS	B	694	38.083	67.824	77.337	1.00	27.13	B	C
	ATOM	4761	CG	HIS	B	694	37.546	68.216	78.679	1.00	30.20	B	C
	ATOM	4762	CD2	HIS	B	694	36.318	68.059	79.228	1.00	30.28	B	C
	ATOM	4763	ND1	HIS	B	694	38.297	68.901	79.611	1.00	30.55	B	N
	ATOM	4764	CE1	HIS	B	694	37.553	69.152	80.673	1.00	30.07	B	C
15	ATOM	4765	NE2	HIS	B	694	36.349	68.651	80.467	1.00	29.92	B	N
	ATOM	4766	C	HIS	B	694	38.285	70.215	76.721	1.00	27.45	B	C
	ATOM	4767	O	HIS	B	694	37.493	71.054	77.149	1.00	28.31	B	O
	ATOM	4768	N	GLU	B	695	39.592	70.426	76.650	1.00	29.12	B	N
	ATOM	4769	CA	GLU	B	695	40.183	71.687	77.073	1.00	32.90	B	C
20	ATOM	4770	CB	GLU	B	695	41.711	71.633	76.918	1.00	38.64	B	C
	ATOM	4771	CG	GLU	B	695	42.444	72.917	77.345	1.00	47.73	B	C
	ATOM	4772	CD	GLU	B	695	43.496	73.388	76.328	1.00	53.11	B	C
	ATOM	4773	OE1	GLU	B	695	44.643	72.879	76.366	1.00	56.16	B	O
	ATOM	4774	OE2	GLU	B	695	43.176	74.272	75.495	1.00	55.10	B	O
25	ATOM	4775	C	GLU	B	695	39.618	72.849	76.262	1.00	32.09	B	C
	ATOM	4776	O	GLU	B	695	39.350	73.922	76.802	1.00	32.79	B	O
	ATOM	4777	N	GLU	B	696	39.429	72.631	74.964	1.00	30.36	B	N
	ATOM	4778	CA	GLU	B	696	38.905	73.679	74.102	1.00	28.16	B	C
	ATOM	4779	CB	GLU	B	696	39.127	73.313	72.646	1.00	29.12	B	C
30	ATOM	4780	CG	GLU	B	696	40.388	73.912	72.073	1.00	33.77	B	C
	ATOM	4781	CD	GLU	B	696	40.779	73.259	70.769	1.00	36.85	B	C
	ATOM	4782	OE1	GLU	B	696	40.692	73.939	69.715	1.00	37.42	B	O
	ATOM	4783	OE2	GLU	B	696	41.165	72.063	70.805	1.00	37.76	B	O
	ATOM	4784	C	GLU	B	696	37.431	73.941	74.345	1.00	25.18	B	C
35	ATOM	4785	O	GLU	B	696	36.996	75.089	74.362	1.00	24.89	B	O
	ATOM	4786	N	LYS	B	697	36.661	72.875	74.530	1.00	24.20	B	N
	ATOM	4787	CA	LYS	B	697	35.233	73.010	74.788	1.00	22.96	B	C
	ATOM	4788	CB	LYS	B	697	34.591	71.635	74.908	1.00	20.95	B	C
	ATOM	4789	CG	LYS	B	697	34.392	70.924	73.586	1.00	20.81	B	C
40	ATOM	4790	CD	LYS	B	697	33.295	69.882	73.700	1.00	16.82	B	C
	ATOM	4791	CE	LYS	B	697	33.290	68.961	72.503	1.00	17.66	B	C
	ATOM	4792	NZ	LYS	B	697	32.154	68.009	72.573	1.00	17.05	B	N
	ATOM	4793	C	LYS	B	697	34.972	73.798	76.074	1.00	25.05	B	C
	ATOM	4794	O	LYS	B	697	34.072	74.638	76.126	1.00	26.16	B	O
45	ATOM	4795	N	ALA	B	698	35.757	73.515	77.111	1.00	25.33	B	N
	ATOM	4796	CA	ALA	B	698	35.614	74.191	78.392	1.00	24.59	B	C
	ATOM	4797	CB	ALA	B	698	36.593	73.609	79.395	1.00	25.22	B	C
	ATOM	4798	C	ALA	B	698	35.880	75.676	78.204	1.00	26.05	B	C
	ATOM	4799	O	ALA	B	698	35.295	76.522	78.884	1.00	27.56	B	O
50	ATOM	4800	N	LYS	B	699	36.767	75.986	77.267	1.00	25.91	B	N
	ATOM	4801	CA	LYS	B	699	37.130	77.362	76.967	1.00	24.98	B	C
	ATOM	4802	CB	LYS	B	699	38.453	77.373	76.190	1.00	27.38	B	C
	ATOM	4803	CG	LYS	B	699	38.691	78.577	75.296	1.00	32.67	B	C
	ATOM	4804	CD	LYS	B	699	39.965	78.382	74.464	1.00	35.73	B	C
55	ATOM	4805	CE	LYS	B	699	40.072	79.391	73.321	1.00	35.75	B	C
	ATOM	4806	NZ	LYS	B	699	39.838	80.792	73.779	1.00	37.60	B	N
	ATOM	4807	C	LYS	B	699	36.026	78.065	76.178	1.00	24.01	B	C
	ATOM	4808	O	LYS	B	699	35.858	79.281	76.281	1.00	23.24	B	O
	ATOM	4809	N	PHE	B	700	35.267	77.293	75.404	1.00	22.46	B	N
60	ATOM	4810	CA	PHE	B	700	34.182	77.845	74.590	1.00	21.88	B	C
	ATOM	4811	CB	PHE	B	700	33.943	76.983	73.340	1.00	20.39	B	C
	ATOM	4812	CG	PHE	B	700	35.119	76.906	72.403	1.00	19.16	B	C
	ATOM	4813	CD1	PHE	B	700	36.106	77.884	72.407	1.00	17.65	B	C
	ATOM	4814	CD2	PHE	B	700	35.244	75.830	71.522	1.00	18.22	B	C
65	ATOM	4815	CE1	PHE	B	700	37.206	77.794	71.553	1.00	17.23	B	C
	ATOM	4816	CE2	PHE	B	700	36.340	75.730	70.664	1.00	18.81	B	C
	ATOM	4817	CZ	PHE	B	700	37.323	76.716	70.683	1.00	17.21	B	C
	ATOM	4818	C	PHE	B	700	32.867	77.935	75.343	1.00	21.15	B	C

	ATOM	4819	O	PHE	B	700	32.137	78.911	75.204	1.00	18.55	B	O
	ATOM	4820	N	LEU	B	701	32.574	76.904	76.133	1.00	22.50	B	N
	ATOM	4821	CA	LEU	B	701	31.323	76.814	76.884	1.00	23.25	B	C
5	ATOM	4822	CB	LEU	B	701	30.692	75.442	76.641	1.00	20.01	B	C
	ATOM	4823	CG	LEU	B	701	30.540	74.980	75.197	1.00	18.79	B	C
	ATOM	4824	CD1	LEU	B	701	30.057	73.543	75.174	1.00	17.60	B	C
	ATOM	4825	CD2	LEU	B	701	29.554	75.887	74.481	1.00	18.86	B	C
	ATOM	4826	C	LEU	B	701	31.389	77.042	78.394	1.00	24.60	B	C
10	ATOM	4827	O	LEU	B	701	30.362	77.281	79.029	1.00	25.49	B	O
	ATOM	4828	N	GLY	B	702	32.583	76.955	78.966	1.00	26.40	B	N
	ATOM	4829	CA	GLY	B	702	32.730	77.116	80.402	1.00	26.52	B	C
	ATOM	4830	C	GLY	B	702	33.238	75.801	80.967	1.00	28.14	B	C
	ATOM	4831	O	GLY	B	702	33.002	74.739	80.381	1.00	28.77	B	O
15	ATOM	4832	N	ASN	B	703	33.918	75.857	82.107	1.00	28.31	B	N
	ATOM	4833	CA	ASN	B	703	34.492	74.661	82.716	1.00	28.57	B	C
	ATOM	4834	CB	ASN	B	703	35.420	75.070	83.856	1.00	30.99	B	C
	ATOM	4835	CG	ASN	B	703	36.541	75.968	83.389	1.00	33.61	B	C
	ATOM	4836	OD1	ASN	B	703	37.578	75.496	82.918	1.00	34.91	B	O
20	ATOM	4837	ND2	ASN	B	703	36.337	77.273	83.505	1.00	35.86	B	N
	ATOM	4838	C	ASN	B	703	33.546	73.577	83.212	1.00	28.07	B	C
	ATOM	4839	O	ASN	B	703	33.975	72.449	83.432	1.00	28.72	B	O
	ATOM	4840	N	ASN	B	704	32.269	73.897	83.379	1.00	27.95	B	N
	ATOM	4841	CA	ASN	B	704	31.302	72.917	83.874	1.00	26.98	B	C
25	ATOM	4842	CB	ASN	B	704	30.459	73.545	84.979	1.00	31.15	B	C
	ATOM	4843	CG	ASN	B	704	30.679	72.887	86.321	1.00	35.66	B	C
	ATOM	4844	OD1	ASN	B	704	30.040	71.879	86.645	1.00	36.74	B	O
	ATOM	4845	ND2	ASN	B	704	31.589	73.454	87.114	1.00	36.73	B	N
	ATOM	4846	C	ASN	B	704	30.372	72.388	82.798	1.00	24.93	B	C
30	ATOM	4847	O	ASN	B	704	29.373	71.730	83.099	1.00	23.56	B	O
	ATOM	4848	N	TYR	B	705	30.710	72.664	81.546	1.00	23.69	B	N
	ATOM	4849	CA	TYR	B	705	29.884	72.261	80.410	1.00	22.88	B	C
	ATOM	4850	CB	TYR	B	705	30.606	72.633	79.104	1.00	21.43	B	C
	ATOM	4851	CG	TYR	B	705	31.613	71.616	78.624	1.00	18.14	B	C
35	ATOM	4852	CD1	TYR	B	705	32.950	71.709	78.987	1.00	17.19	B	C
	ATOM	4853	CE1	TYR	B	705	33.877	70.766	78.554	1.00	17.54	B	C
	ATOM	4854	CD2	TYR	B	705	31.221	70.550	77.807	1.00	17.62	B	C
	ATOM	4855	CE2	TYR	B	705	32.137	69.607	77.371	1.00	15.92	B	C
	ATOM	4856	CZ	TYR	B	705	33.463	69.719	77.748	1.00	17.01	B	C
40	ATOM	4857	OH	TYR	B	705	34.374	68.778	77.324	1.00	19.24	B	O
	ATOM	4858	C	TYR	B	705	29.416	70.797	80.377	1.00	22.88	B	C
	ATOM	4859	O	TYR	B	705	28.380	70.488	79.781	1.00	23.00	B	O
	ATOM	4860	N	LEU	B	706	30.155	69.899	81.022	1.00	22.71	B	N
	ATOM	4861	CA	LEU	B	706	29.772	68.490	81.028	1.00	22.74	B	C
45	ATOM	4862	CB	LEU	B	706	30.975	67.611	81.402	1.00	22.67	B	C
	ATOM	4863	CG	LEU	B	706	32.005	67.315	80.301	1.00	22.84	B	C
	ATOM	4864	CD1	LEU	B	706	33.274	66.748	80.912	1.00	21.31	B	C
	ATOM	4865	CD2	LEU	B	706	31.420	66.331	79.298	1.00	23.62	B	C
	ATOM	4866	C	LEU	B	706	28.607	68.216	81.980	1.00	24.33	B	C
50	ATOM	4867	O	LEU	B	706	27.984	67.154	81.920	1.00	23.98	B	O
	ATOM	4868	N	GLU	B	707	28.309	69.177	82.850	1.00	25.30	B	N
	ATOM	4869	CA	GLU	B	707	27.216	69.034	83.808	1.00	25.69	B	C
	ATOM	4870	CB	GLU	B	707	27.469	69.932	85.021	1.00	29.45	B	C
	ATOM	4871	CG	GLU	B	707	28.619	69.469	85.899	1.00	34.15	B	C
55	ATOM	4872	CD	GLU	B	707	28.454	68.031	86.345	1.00	37.08	B	C
	ATOM	4873	OE1	GLU	B	707	29.369	67.217	86.096	1.00	39.76	B	O
	ATOM	4874	OE2	GLU	B	707	27.403	67.711	86.941	1.00	40.46	B	O
	ATOM	4875	C	GLU	B	707	25.884	69.410	83.162	1.00	24.34	B	C
	ATOM	4876	O	GLU	B	707	25.768	70.454	82.530	1.00	23.42	B	O
60	ATOM	4877	N	GLU	B	708	24.877	68.563	83.339	1.00	23.47	B	N
	ATOM	4878	CA	GLU	B	708	23.557	68.805	82.761	1.00	25.19	B	C
	ATOM	4879	CB	GLU	B	708	22.787	67.483	82.656	1.00	27.44	B	C
	ATOM	4880	CG	GLU	B	708	23.685	66.255	82.712	1.00	32.20	B	C
	ATOM	4881	CD	GLU	B	708	23.269	65.163	81.745	1.00	32.38	B	C
65	ATOM	4882	OE1	GLU	B	708	22.068	64.854	81.680	1.00	32.46	B	O
	ATOM	4883	OE2	GLU	B	708	24.148	64.605	81.054	1.00	35.74	B	O
	ATOM	4884	C	GLU	B	708	22.718	69.836	83.525	1.00	23.69	B	C
	ATOM	4885	O	GLU	B	708	22.837	69.974	84.739	1.00	24.10	B	O
	ATOM	4886	N	GLY	B	709	21.871	70.561	82.795	1.00	21.52	B	N

	ATOM	4887	CA	GLY	B	709	21.023	71.566	83.408	1.00	18.80	B	C
	ATOM	4888	C	GLY	B	709	21.698	72.918	83.510	1.00	19.01	B	C
	ATOM	4889	O	GLY	B	709	22.820	73.091	83.032	1.00	19.55	B	O
	ATOM	4890	N	PRO	B	710	21.039	73.905	84.133	1.00	18.24	B	N
5	ATOM	4891	CD	PRO	B	710	19.690	73.784	84.713	1.00	18.42	B	C
	ATOM	4892	CA	PRO	B	710	21.583	75.258	84.297	1.00	18.33	B	C
	ATOM	4893	CB	PRO	B	710	20.552	75.956	85.184	1.00	17.32	B	C
	ATOM	4894	CG	PRO	B	710	19.288	75.214	84.940	1.00	16.80	B	C
	ATOM	4895	C	PRO	B	710	22.983	75.332	84.902	1.00	19.92	B	C
10	ATOM	4896	O	PRO	B	710	23.743	76.259	84.617	1.00	20.94	B	O
	ATOM	4897	N	ILE	B	711	23.322	74.360	85.740	1.00	19.48	B	N
	ATOM	4898	CA	ILE	B	711	24.618	74.350	86.398	1.00	19.81	B	C
	ATOM	4899	CB	ILE	B	711	24.687	73.208	87.446	1.00	19.55	B	C
	ATOM	4900	CG2	ILE	B	711	25.035	71.890	86.780	1.00	20.96	B	C
15	ATOM	4901	CG1	ILE	B	711	25.724	73.550	88.517	1.00	22.03	B	C
	ATOM	4902	CD1	ILE	B	711	25.503	74.897	89.185	1.00	21.10	B	C
	ATOM	4903	C	ILE	B	711	25.777	74.228	85.415	1.00	20.26	B	C
	ATOM	4904	O	ILE	B	711	26.876	74.725	85.673	1.00	20.86	B	O
	ATOM	4905	N	GLY	B	712	25.525	73.580	84.282	1.00	18.83	B	N
20	ATOM	4906	CA	GLY	B	712	26.567	73.410	83.291	1.00	20.31	B	C
	ATOM	4907	C	GLY	B	712	26.686	74.539	82.280	1.00	20.25	B	C
	ATOM	4908	O	GLY	B	712	27.568	74.505	81.431	1.00	20.41	B	O
	ATOM	4909	N	ASN	B	713	25.817	75.544	82.365	1.00	19.94	B	N
	ATOM	4910	CA	ASN	B	713	25.860	76.654	81.416	1.00	18.93	B	C
25	ATOM	4911	CB	ASN	B	713	24.452	76.956	80.881	1.00	16.93	B	C
	ATOM	4912	CG	ASN	B	713	24.439	78.108	79.879	1.00	17.45	B	C
	ATOM	4913	OD1	ASN	B	713	23.672	79.070	80.015	1.00	16.35	B	O
	ATOM	4914	ND2	ASN	B	713	25.292	78.015	78.865	1.00	14.86	B	N
	ATOM	4915	C	ASN	B	713	26.454	77.939	81.970	1.00	19.73	B	C
30	ATOM	4916	O	ASN	B	713	26.044	78.420	83.024	1.00	20.37	B	O
	ATOM	4917	N	ASP	B	714	27.416	78.491	81.237	1.00	19.34	B	N
	ATOM	4918	CA	ASP	B	714	28.065	79.746	81.592	1.00	18.48	B	C
	ATOM	4919	CB	ASP	B	714	29.587	79.576	81.593	1.00	19.20	B	C
	ATOM	4920	CG	ASP	B	714	30.318	80.815	82.090	1.00	20.83	B	C
35	ATOM	4921	OD1	ASP	B	714	29.688	81.894	82.197	1.00	21.69	B	O
	ATOM	4922	OD2	ASP	B	714	31.530	80.705	82.374	1.00	21.28	B	O
	ATOM	4923	C	ASP	B	714	27.647	80.735	80.503	1.00	19.18	B	C
	ATOM	4924	O	ASP	B	714	28.282	80.811	79.449	1.00	18.79	B	O
	ATOM	4925	N	ILE	B	715	26.576	81.480	80.765	1.00	17.05	B	N
40	ATOM	4926	CA	ILE	B	715	26.038	82.442	79.815	1.00	17.43	B	C
	ATOM	4927	CB	ILE	B	715	24.824	83.198	80.414	1.00	18.26	B	C
	ATOM	4928	CG2	ILE	B	715	25.297	84.224	81.432	1.00	18.30	B	C
	ATOM	4929	CG1	ILE	B	715	24.024	83.880	79.304	1.00	16.63	B	C
	ATOM	4930	CD1	ILE	B	715	22.826	84.654	79.811	1.00	13.91	B	C
45	ATOM	4931	C	ILE	B	715	27.067	83.451	79.343	1.00	18.65	B	C
	ATOM	4932	O	ILE	B	715	26.942	84.004	78.252	1.00	19.56	B	O
	ATOM	4933	N	ARG	B	716	28.083	83.697	80.160	1.00	19.49	B	N
	ATOM	4934	CA	ARG	B	716	29.117	84.648	79.781	1.00	22.86	B	C
	ATOM	4935	CB	ARG	B	716	30.104	84.843	80.932	1.00	26.46	B	C
50	ATOM	4936	CG	ARG	B	716	29.653	85.849	81.983	1.00	32.60	B	C
	ATOM	4937	CD	ARG	B	716	30.619	85.904	83.160	1.00	35.35	B	C
	ATOM	4938	NE	ARG	B	716	31.017	84.571	83.612	1.00	40.45	B	N
	ATOM	4939	CZ	ARG	B	716	32.020	84.330	84.455	1.00	42.12	B	C
	ATOM	4940	NH1	ARG	B	716	32.738	85.333	84.945	1.00	42.93	B	N
55	ATOM	4941	NH2	ARG	B	716	32.304	83.085	84.814	1.00	42.34	B	N
	ATOM	4942	C	ARG	B	716	29.862	84.133	78.548	1.00	23.94	B	C
	ATOM	4943	O	ARG	B	716	30.459	84.909	77.795	1.00	24.03	B	O
	ATOM	4944	N	LYS	B	717	29.809	82.819	78.344	1.00	22.93	B	N
	ATOM	4945	CA	LYS	B	717	30.486	82.182	77.222	1.00	22.59	B	C
60	ATOM	4946	CB	LYS	B	717	31.281	80.974	77.725	1.00	22.91	B	C
	ATOM	4947	CG	LYS	B	717	32.750	81.263	77.952	1.00	25.22	B	C
	ATOM	4948	CD	LYS	B	717	33.286	80.476	79.125	1.00	27.98	B	C
	ATOM	4949	CE	LYS	B	717	34.767	80.767	79.348	1.00	30.59	B	C
	ATOM	4950	NZ	LYS	B	717	35.502	79.566	79.868	1.00	34.13	B	N
65	ATOM	4951	C	LYS	B	717	29.560	81.731	76.095	1.00	20.65	B	C
	ATOM	4952	O	LYS	B	717	29.944	81.752	74.927	1.00	21.08	B	O
	ATOM	4953	N	THR	B	718	28.343	81.339	76.446	1.00	18.68	B	N
	ATOM	4954	CA	THR	B	718	27.384	80.832	75.469	1.00	17.76	B	C

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	ATOM	4955	CB	THR	B	718	26.722	79.549	75.993	1.00	16.68	B	C
	ATOM	4956	OG1	THR	B	718	25.818	79.889	77.053	1.00	17.65	B	O
	ATOM	4957	CG2	THR	B	718	27.771	78.574	76.513	1.00	14.72	B	C
5	ATOM	4958	C	THR	B	718	26.254	81.769	75.043	1.00	16.91	B	C
	ATOM	4959	O	THR	B	718	25.637	81.550	74.007	1.00	16.87	B	O
	ATOM	4960	N	ASN	B	719	25.976	82.799	75.831	1.00	16.52	B	N
	ATOM	4961	CA	ASN	B	719	24.882	83.722	75.527	1.00	15.85	B	C
	ATOM	4962	CB	ASN	B	719	25.137	84.477	74.220	1.00	16.58	B	C
10	ATOM	4963	CG	ASN	B	719	24.367	85.789	74.143	1.00	18.50	B	C
	ATOM	4964	OD1	ASN	B	719	24.479	86.647	75.018	1.00	21.63	B	O
	ATOM	4965	ND2	ASN	B	719	23.580	85.950	73.088	1.00	21.02	B	N
	ATOM	4966	C	ASN	B	719	23.531	83.000	75.449	1.00	15.51	B	C
	ATOM	4967	O	ASN	B	719	22.626	83.418	74.719	1.00	14.73	B	O
	ATOM	4968	N	VAL	B	720	23.412	81.902	76.193	1.00	14.57	B	N
15	ATOM	4969	CA	VAL	B	720	22.177	81.132	76.268	1.00	11.62	B	C
	ATOM	4970	CB	VAL	B	720	22.440	79.604	76.201	1.00	14.14	B	C
	ATOM	4971	CG1	VAL	B	720	21.170	78.844	76.581	1.00	12.47	B	C
	ATOM	4972	CG2	VAL	B	720	22.892	79.195	74.793	1.00	10.90	B	C
20	ATOM	4973	C	VAL	B	720	21.569	81.464	77.636	1.00	13.42	B	C
	ATOM	4974	O	VAL	B	720	22.246	81.372	78.664	1.00	13.90	B	O
	ATOM	4975	N	ALA	B	721	20.298	81.848	77.645	1.00	12.59	B	N
	ATOM	4976	CA	ALA	B	721	19.600	82.216	78.876	1.00	12.91	B	C
	ATOM	4977	CB	ALA	B	721	18.221	82.760	78.536	1.00	12.04	B	C
25	ATOM	4978	C	ALA	B	721	19.466	81.065	79.864	1.00	12.52	B	C
	ATOM	4979	O	ALA	B	721	19.246	79.927	79.473	1.00	12.55	B	O
	ATOM	4980	N	GLN	B	722	19.591	81.370	81.151	1.00	14.80	B	N
	ATOM	4981	CA	GLN	B	722	19.465	80.347	82.185	1.00	14.41	B	C
	ATOM	4982	CB	GLN	B	722	19.976	80.878	83.528	1.00	14.63	B	C
30	ATOM	4983	CG	GLN	B	722	21.496	80.859	83.661	1.00	15.32	B	C
	ATOM	4984	CD	GLN	B	722	22.084	79.454	83.587	1.00	19.34	B	C
	ATOM	4985	OE1	GLN	B	722	22.739	78.981	84.522	1.00	19.73	B	O
	ATOM	4986	NE2	GLN	B	722	21.854	78.782	82.470	1.00	20.05	B	N
	ATOM	4987	C	GLN	B	722	18.000	79.929	82.284	1.00	14.71	B	C
35	ATOM	4988	O	GLN	B	722	17.681	78.822	82.733	1.00	14.99	B	O
	ATOM	4989	N	ILE	B	723	17.110	80.824	81.857	1.00	14.47	B	N
	ATOM	4990	CA	ILE	B	723	15.681	80.534	81.852	1.00	15.80	B	C
	ATOM	4991	CB	ILE	B	723	14.874	81.760	81.367	1.00	14.07	B	C
	ATOM	4992	CG2	ILE	B	723	13.468	81.343	80.967	1.00	13.11	B	C
40	ATOM	4993	CG1	ILE	B	723	14.818	82.805	82.483	1.00	16.69	B	C
	ATOM	4994	CD1	ILE	B	723	14.133	84.103	82.096	1.00	13.69	B	C
	ATOM	4995	C	ILE	B	723	15.449	79.362	80.885	1.00	16.84	B	C
	ATOM	4996	O	ILE	B	723	14.672	78.438	81.161	1.00	18.42	B	O
	ATOM	4997	N	ARG	B	724	16.142	79.411	79.751	1.00	16.19	B	N
45	ATOM	4998	CA	ARG	B	724	16.041	78.377	78.725	1.00	14.80	B	C
	ATOM	4999	CB	ARG	B	724	16.796	78.834	77.456	1.00	14.44	B	C
	ATOM	5000	CG	ARG	B	724	16.773	77.848	76.278	1.00	12.78	B	C
	ATOM	5001	CD	ARG	B	724	15.363	77.474	75.854	1.00	10.98	B	C
	ATOM	5002	NE	ARG	B	724	14.623	78.617	75.329	1.00	14.92	B	N
50	ATOM	5003	CZ	ARG	B	724	14.634	79.002	74.053	1.00	16.27	B	C
	ATOM	5004	NH1	ARG	B	724	15.350	78.335	73.156	1.00	15.79	B	N
	ATOM	5005	NH2	ARG	B	724	13.931	80.060	73.672	1.00	14.64	B	N
	ATOM	5006	C	ARG	B	724	16.635	77.080	79.265	1.00	12.44	B	C
	ATOM	5007	O	ARG	B	724	16.033	76.015	79.148	1.00	12.58	B	O
55	ATOM	5008	N	MET	B	725	17.816	77.175	79.865	1.00	10.67	B	N
	ATOM	5009	CA	MET	B	725	18.470	75.995	80.418	1.00	11.85	B	C
	ATOM	5010	CB	MET	B	725	19.795	76.386	81.072	1.00	10.57	B	C
	ATOM	5011	CG	MET	B	725	20.864	76.848	80.095	1.00	10.67	B	C
	ATOM	5012	SD	MET	B	725	21.369	75.564	78.929	1.00	14.85	B	S
60	ATOM	5013	CE	MET	B	725	21.925	74.248	80.010	1.00	10.05	B	C
	ATOM	5014	C	MET	B	725	17.572	75.296	81.446	1.00	13.88	B	C
	ATOM	5015	O	MET	B	725	17.411	74.073	81.412	1.00	15.02	B	O
	ATOM	5016	N	ALA	B	726	16.983	76.080	82.349	1.00	14.89	B	N
	ATOM	5017	CA	ALA	B	726	16.109	75.546	83.389	1.00	13.48	B	C
65	ATOM	5018	CB	ALA	B	726	15.725	76.652	84.373	1.00	9.01	B	C
	ATOM	5019	C	ALA	B	726	14.861	74.930	82.781	1.00	13.73	B	C
	ATOM	5020	O	ALA	B	726	14.420	73.856	83.207	1.00	14.26	B	O
	ATOM	5021	N	TYR	B	727	14.286	75.612	81.790	1.00	12.73	B	N
	ATOM	5022	CA	TYR	B	727	13.089	75.105	81.131	1.00	10.61	B	C

	ATOM	5023	CB	TYR	B	727	12.628	76.059	80.016	1.00	11.73	B	C
	ATOM	5024	CG	TYR	B	727	11.520	75.468	79.179	1.00	10.47	B	C
	ATOM	5025	CD1	TYR	B	727	11.801	74.789	77.997	1.00	13.48	B	C
5	ATOM	5026	CE1	TYR	B	727	10.784	74.181	77.253	1.00	12.31	B	C
	ATOM	5027	CD2	TYR	B	727	10.195	75.530	79.598	1.00	11.54	B	C
	ATOM	5028	CE2	TYR	B	727	9.170	74.926	78.862	1.00	11.41	B	C
	ATOM	5029	CZ	TYR	B	727	9.474	74.255	77.693	1.00	11.44	B	C
	ATOM	5030	OH	TYR	B	727	8.465	73.673	76.961	1.00	13.12	B	O
10	ATOM	5031	C	TYR	B	727	13.320	73.716	80.544	1.00	9.91	B	C
	ATOM	5032	O	TYR	B	727	12.549	72.797	80.800	1.00	10.26	B	O
	ATOM	5033	N	ARG	B	728	14.381	73.564	79.756	1.00	11.78	B	N
	ATOM	5034	CA	ARG	B	728	14.692	72.275	79.127	1.00	11.02	B	C
	ATOM	5035	CB	ARG	B	728	15.945	72.384	78.250	1.00	9.88	B	C
	ATOM	5036	CG	ARG	B	728	15.844	73.397	77.120	1.00	14.65	B	C
15	ATOM	5037	CD	ARG	B	728	14.888	72.939	76.021	1.00	13.10	B	C
	ATOM	5038	NE	ARG	B	728	14.976	73.812	74.853	1.00	14.33	B	N
	ATOM	5039	CZ	ARG	B	728	14.127	73.786	73.832	1.00	11.86	B	C
	ATOM	5040	NH1	ARG	B	728	13.119	72.926	73.828	1.00	9.38	B	N
	ATOM	5041	NH2	ARG	B	728	14.283	74.632	72.822	1.00	10.33	B	N
20	ATOM	5042	C	ARG	B	728	14.933	71.186	80.155	1.00	11.57	B	C
	ATOM	5043	O	ARG	B	728	14.396	70.080	80.055	1.00	11.54	B	O
	ATOM	5044	N	TYR	B	729	15.768	71.503	81.135	1.00	12.65	B	N
	ATOM	5045	CA	TYR	B	729	16.104	70.549	82.176	1.00	12.68	B	C
	ATOM	5046	CB	TYR	B	729	17.048	71.205	83.174	1.00	14.97	B	C
25	ATOM	5047	CG	TYR	B	729	17.672	70.226	84.132	1.00	20.67	B	C
	ATOM	5048	CD1	TYR	B	729	18.217	69.023	83.678	1.00	19.51	B	C
	ATOM	5049	CE1	TYR	B	729	18.779	68.116	84.564	1.00	22.60	B	C
	ATOM	5050	CD2	TYR	B	729	17.708	70.498	85.502	1.00	22.34	B	C
	ATOM	5051	CE2	TYR	B	729	18.266	69.601	86.396	1.00	23.54	B	C
30	ATOM	5052	CZ	TYR	B	729	18.800	68.412	85.926	1.00	25.39	B	C
	ATOM	5053	OH	TYR	B	729	19.343	67.523	86.828	1.00	28.60	B	O
	ATOM	5054	C	TYR	B	729	14.865	70.026	82.884	1.00	12.18	B	C
	ATOM	5055	O	TYR	B	729	14.668	68.814	83.015	1.00	13.21	B	O
	ATOM	5056	N	GLU	B	730	14.012	70.945	83.314	1.00	12.14	B	N
35	ATOM	5057	CA	GLU	B	730	12.795	70.577	84.017	1.00	13.77	B	C
	ATOM	5058	CB	GLU	B	730	12.090	71.836	84.530	1.00	14.61	B	C
	ATOM	5059	CG	GLU	B	730	12.932	72.664	85.477	1.00	15.79	B	C
	ATOM	5060	CD	GLU	B	730	12.300	74.002	85.800	1.00	20.19	B	C
	ATOM	5061	OE1	GLU	B	730	12.963	74.834	86.463	1.00	21.17	B	O
40	ATOM	5062	OE2	GLU	B	730	11.139	74.224	85.395	1.00	21.23	B	O
	ATOM	5063	C	GLU	B	730	11.827	69.749	83.179	1.00	15.17	B	C
	ATOM	5064	O	GLU	B	730	11.291	68.750	83.669	1.00	16.83	B	O
	ATOM	5065	N	THR	B	731	11.590	70.137	81.924	1.00	14.59	B	N
	ATOM	5066	CA	THR	B	731	10.654	69.352	81.121	1.00	13.75	B	C
45	ATOM	5067	CB	THR	B	731	10.133	70.150	79.885	1.00	15.60	B	C
	ATOM	5068	OG1	THR	B	731	10.677	69.608	78.681	1.00	19.47	B	O
	ATOM	5069	CG2	THR	B	731	10.483	71.604	79.999	1.00	8.84	B	C
	ATOM	5070	C	THR	B	731	11.240	67.990	80.716	1.00	12.34	B	C
	ATOM	5071	O	THR	B	731	10.505	67.013	80.555	1.00	12.59	B	O
50	ATOM	5072	N	TRP	B	732	12.563	67.910	80.590	1.00	11.08	B	N
	ATOM	5073	CA	TRP	B	732	13.212	66.637	80.255	1.00	10.63	B	C
	ATOM	5074	CB	TRP	B	732	14.689	66.867	79.939	1.00	7.51	B	C
	ATOM	5075	CG	TRP	B	732	15.482	65.624	79.616	1.00	8.17	B	C
	ATOM	5076	CD2	TRP	B	732	16.904	65.458	79.748	1.00	7.03	B	C
55	ATOM	5077	CE2	TRP	B	732	17.224	64.170	79.263	1.00	6.78	B	C
	ATOM	5078	CE3	TRP	B	732	17.939	66.276	80.229	1.00	8.62	B	C
	ATOM	5079	CD1	TRP	B	732	15.011	64.451	79.075	1.00	7.54	B	C
	ATOM	5080	NE1	TRP	B	732	16.055	63.576	78.859	1.00	4.81	B	N
	ATOM	5081	CZ2	TRP	B	732	18.538	63.683	79.244	1.00	6.74	B	C
60	ATOM	5082	CZ3	TRP	B	732	19.247	65.788	80.207	1.00	7.46	B	C
	ATOM	5083	CH2	TRP	B	732	19.530	64.504	79.717	1.00	6.76	B	C
	ATOM	5084	C	TRP	B	732	13.077	65.706	81.466	1.00	12.44	B	C
	ATOM	5085	O	TRP	B	732	12.713	64.531	81.334	1.00	12.32	B	O
	ATOM	5086	N	CYS	B	733	13.368	66.239	82.650	1.00	14.42	B	N
65	ATOM	5087	CA	CYS	B	733	13.259	65.453	83.886	1.00	16.33	B	C
	ATOM	5088	CB	CYS	B	733	13.680	66.300	85.093	1.00	13.63	B	C
	ATOM	5089	SG	CYS	B	733	15.467	66.386	85.338	1.00	19.07	B	S
	ATOM	5090	C	CYS	B	733	11.822	64.964	84.084	1.00	14.59	B	C

	ATOM	5091	O	CYS	B	733	11.582	63.807	84.450	1.00	14.04	B	O
	ATOM	5092	N	TYR	B	734	10.869	65.853	83.826	1.00	13.43	B	N
	ATOM	5093	CA	TYR	B	734	9.465	65.524	83.977	1.00	13.87	B	C
5	ATOM	5094	CB	TYR	B	734	8.620	66.743	83.624	1.00	15.41	B	C
	ATOM	5095	CG	TYR	B	734	7.164	66.606	83.983	1.00	19.24	B	C
	ATOM	5096	CD1	TYR	B	734	6.669	67.107	85.188	1.00	22.20	B	C
	ATOM	5097	CE1	TYR	B	734	5.316	66.999	85.516	1.00	22.69	B	C
	ATOM	5098	CD2	TYR	B	734	6.274	65.990	83.115	1.00	21.58	B	C
10	ATOM	5099	CE2	TYR	B	734	4.922	65.876	83.431	1.00	24.91	B	C
	ATOM	5100	CZ	TYR	B	734	4.448	66.386	84.631	1.00	24.18	B	C
	ATOM	5101	OH	TYR	B	734	3.102	66.303	84.916	1.00	25.22	B	O
	ATOM	5102	C	TYR	B	734	9.035	64.328	83.125	1.00	14.44	B	C
	ATOM	5103	O	TYR	B	734	8.277	63.473	83.579	1.00	13.97	B	O
15	ATOM	5104	N	GLU	B	735	9.517	64.264	81.890	1.00	15.28	B	N
	ATOM	5105	CA	GLU	B	735	9.149	63.161	81.005	1.00	15.67	B	C
	ATOM	5106	CB	GLU	B	735	9.598	63.460	79.566	1.00	16.67	B	C
	ATOM	5107	CG	GLU	B	735	8.866	64.644	78.923	1.00	16.48	B	C
	ATOM	5108	CD	GLU	B	735	7.357	64.446	78.855	1.00	13.61	B	C
20	ATOM	5109	OE1	GLU	B	735	6.901	63.382	78.394	1.00	12.69	B	O
	ATOM	5110	OE2	GLU	B	735	6.618	65.365	79.264	1.00	17.36	B	O
	ATOM	5111	C	GLU	B	735	9.755	61.845	81.485	1.00	14.41	B	C
	ATOM	5112	O	GLU	B	735	9.115	60.796	81.428	1.00	11.84	B	O
	ATOM	5113	N	LEU	B	736	10.994	61.901	81.956	1.00	14.19	B	N
25	ATOM	5114	CA	LEU	B	736	11.656	60.698	82.456	1.00	16.22	B	C
	ATOM	5115	CB	LEU	B	736	13.122	61.000	82.765	1.00	15.55	B	C
	ATOM	5116	CG	LEU	B	736	14.039	61.205	81.551	1.00	17.54	B	C
	ATOM	5117	CD1	LEU	B	736	15.339	61.863	82.007	1.00	16.42	B	C
	ATOM	5118	CD2	LEU	B	736	14.315	59.863	80.859	1.00	14.16	B	C
	ATOM	5119	C	LEU	B	736	10.948	60.191	83.719	1.00	16.60	B	C
30	ATOM	5120	O	LEU	B	736	10.747	58.994	83.901	1.00	15.33	B	O
	ATOM	5121	N	ASN	B	737	10.564	61.121	84.586	1.00	18.95	B	N
	ATOM	5122	CA	ASN	B	737	9.880	60.780	85.826	1.00	19.99	B	C
	ATOM	5123	CB	ASN	B	737	9.636	62.040	86.651	1.00	21.42	B	C
35	ATOM	5124	CG	ASN	B	737	9.162	61.724	88.049	1.00	23.10	B	C
	ATOM	5125	OD1	ASN	B	737	9.896	61.137	88.834	1.00	27.32	B	O
	ATOM	5126	ND2	ASN	B	737	7.929	62.107	88.367	1.00	24.07	B	N
	ATOM	5127	C	ASN	B	737	8.553	60.066	85.596	1.00	20.48	B	C
	ATOM	5128	O	ASN	B	737	8.180	59.167	86.359	1.00	20.38	B	O
40	ATOM	5129	N	LEU	B	738	7.841	60.468	84.548	1.00	19.04	B	N
	ATOM	5130	CA	LEU	B	738	6.556	59.858	84.230	1.00	19.24	B	C
	ATOM	5131	CB	LEU	B	738	5.976	60.467	82.949	1.00	16.61	B	C
	ATOM	5132	CG	LEU	B	738	5.340	61.855	83.082	1.00	16.71	B	C
	ATOM	5133	CD1	LEU	B	738	4.967	62.385	81.707	1.00	16.97	B	C
45	ATOM	5134	CD2	LEU	B	738	4.111	61.771	83.958	1.00	15.74	B	C
	ATOM	5135	C	LEU	B	738	6.696	58.349	84.065	1.00	19.34	B	C
	ATOM	5136	O	LEU	B	738	5.817	57.586	84.456	1.00	18.17	B	O
	ATOM	5137	N	ILE	B	739	7.810	57.923	83.486	1.00	20.16	B	N
	ATOM	5138	CA	ILE	B	739	8.050	56.505	83.266	1.00	20.40	B	C
50	ATOM	5139	CB	ILE	B	739	9.235	56.275	82.303	1.00	19.20	B	C
	ATOM	5140	CG2	ILE	B	739	9.609	54.792	82.278	1.00	15.28	B	C
	ATOM	5141	CG1	ILE	B	739	8.858	56.757	80.895	1.00	21.30	B	C
	ATOM	5142	CD1	ILE	B	739	10.007	57.380	80.121	1.00	21.80	B	C
	ATOM	5143	C	ILE	B	739	8.348	55.816	84.584	1.00	20.85	B	C
55	ATOM	5144	O	ILE	B	739	7.847	54.721	84.846	1.00	19.45	B	O
	ATOM	5145	N	ALA	B	740	9.168	56.465	85.408	1.00	21.20	B	N
	ATOM	5146	CA	ALA	B	740	9.535	55.921	86.714	1.00	22.83	B	C
	ATOM	5147	CB	ALA	B	740	10.498	56.863	87.426	1.00	20.51	B	C
	ATOM	5148	C	ALA	B	740	8.282	55.712	87.561	1.00	23.24	B	C
60	ATOM	5149	O	ALA	B	740	8.127	54.677	88.207	1.00	23.02	B	O
	ATOM	5150	N	GLU	B	741	7.384	56.691	87.548	1.00	22.97	B	N
	ATOM	5151	CA	GLU	B	741	6.161	56.579	88.322	1.00	25.70	B	C
	ATOM	5152	CB	GLU	B	741	5.374	57.888	88.263	1.00	27.81	B	C
	ATOM	5153	CG	GLU	B	741	6.146	59.100	88.770	1.00	33.24	B	C
65	ATOM	5154	CD	GLU	B	741	6.111	59.229	90.285	1.00	34.83	B	C
	ATOM	5155	OE1	GLU	B	741	7.181	59.448	90.895	1.00	36.24	B	O
	ATOM	5156	OE2	GLU	B	741	5.011	59.111	90.867	1.00	38.00	B	O
	ATOM	5157	C	GLU	B	741	5.290	55.432	87.817	1.00	26.64	B	C
	ATOM	5158	O	GLU	B	741	4.625	54.757	88.601	1.00	25.82	B	O

	ATOM	5159	N	GLY	B	742	5.302	55.208	86.506	1.00	27.81	B	N
	ATOM	5160	CA	GLY	B	742	4.492	54.145	85.939	1.00	28.77	B	C
	ATOM	5161	C	GLY	B	742	4.977	52.767	86.327	1.00	30.49	B	C
	ATOM	5162	O	GLY	B	742	4.252	51.782	86.194	1.00	31.60	B	O
5	ATOM	5163	N	LEU	B	743	6.212	52.700	86.805	1.00	31.82	B	N
	ATOM	5164	CA	LEU	B	743	6.824	51.443	87.215	1.00	32.61	B	C
	ATOM	5165	CB	LEU	B	743	8.248	51.367	86.656	1.00	30.54	B	C
	ATOM	5166	CG	LEU	B	743	8.531	50.628	85.345	1.00	29.34	B	C
10	ATOM	5167	CD1	LEU	B	743	7.256	50.384	84.561	1.00	26.88	B	C
	ATOM	5168	CD2	LEU	B	743	9.522	51.449	84.543	1.00	28.28	B	C
	ATOM	5169	C	LEU	B	743	6.876	51.357	88.743	1.00	34.95	B	C
	ATOM	5170	O	LEU	B	743	7.170	50.305	89.310	1.00	34.20	B	O
	ATOM	5171	N	LYS	B	744	6.585	52.480	89.394	1.00	38.15	B	N
	ATOM	5172	CA	LYS	B	744	6.617	52.592	90.848	1.00	40.44	B	C
15	ATOM	5173	CB	LYS	B	744	6.283	54.029	91.253	1.00	39.14	B	C
	ATOM	5174	CG	LYS	B	744	7.297	54.673	92.175	1.00	36.35	B	C
	ATOM	5175	CD	LYS	B	744	6.602	55.500	93.230	1.00	35.55	B	C
	ATOM	5176	CE	LYS	B	744	7.429	56.707	93.622	1.00	36.85	B	C
	ATOM	5177	NZ	LYS	B	744	6.673	57.606	94.537	1.00	36.75	B	N
20	ATOM	5178	C	LYS	B	744	5.709	51.633	91.617	1.00	43.79	B	C
	ATOM	5179	O	LYS	B	744	4.634	51.247	91.151	1.00	43.72	B	O
	ATOM	5180	N	SER	B	745	6.162	51.264	92.811	1.00	47.35	B	N
	ATOM	5181	CA	SER	B	745	5.424	50.372	93.695	1.00	51.17	B	C
	ATOM	5182	CB	SER	B	745	5.232	49.004	93.036	1.00	52.44	B	C
25	ATOM	5183	OG	SER	B	745	3.990	48.436	93.416	1.00	55.13	B	O
	ATOM	5184	C	SER	B	745	6.180	50.214	95.017	1.00	53.95	B	C
	ATOM	5185	O	SER	B	745	6.983	49.257	95.129	1.00	55.53	B	O
	ATOM	5186	OT	SER	B	745	5.966	51.054	95.926	1.00	54.80	B	O
	ATOM	5187	CB	SER	D	106	-10.669	60.597	13.674	1.00	41.29	D	C
30	ATOM	5188	OG	SER	D	106	-11.671	60.084	14.533	1.00	42.38	D	O
	ATOM	5189	C	SER	D	106	-12.783	60.900	12.349	1.00	40.11	D	C
	ATOM	5190	O	SER	D	106	-13.463	61.793	12.858	1.00	40.79	D	O
	ATOM	5191	N	SER	D	106	-10.812	62.376	11.950	1.00	40.36	D	N
	ATOM	5192	CA	SER	D	106	-11.253	60.994	12.313	1.00	41.05	D	C
35	ATOM	5193	N	PRO	D	107	-13.342	59.804	11.816	1.00	39.08	D	N
	ATOM	5194	CD	PRO	D	107	-12.628	58.666	11.214	1.00	38.12	D	C
	ATOM	5195	CA	PRO	D	107	-14.795	59.613	11.788	1.00	39.02	D	C
	ATOM	5196	CB	PRO	D	107	-14.975	58.287	11.042	1.00	37.27	D	C
	ATOM	5197	CG	PRO	D	107	-13.678	58.023	10.371	1.00	36.87	D	C
40	ATOM	5198	C	PRO	D	107	-15.501	59.593	13.146	1.00	39.56	D	C
	ATOM	5199	O	PRO	D	107	-16.688	59.911	13.233	1.00	40.00	D	O
	ATOM	5200	N	THR	D	108	-14.781	59.231	14.203	1.00	39.18	D	N
	ATOM	5201	CA	THR	D	108	-15.384	59.144	15.533	1.00	38.91	D	C
	ATOM	5202	CB	THR	D	108	-14.545	58.217	16.461	1.00	39.32	D	C
45	ATOM	5203	OG1	THR	D	108	-13.377	58.910	16.922	1.00	39.24	D	O
	ATOM	5204	CG2	THR	D	108	-14.124	56.959	15.708	1.00	38.63	D	C
	ATOM	5205	C	THR	D	108	-15.636	60.473	16.258	1.00	37.17	D	C
	ATOM	5206	O	THR	D	108	-16.125	60.482	17.390	1.00	37.25	D	O
	ATOM	5207	N	TYR	D	109	-15.328	61.592	15.610	1.00	35.89	D	N
50	ATOM	5208	CA	TYR	D	109	-15.530	62.895	16.242	1.00	33.43	D	C
	ATOM	5209	CB	TYR	D	109	-14.306	63.784	16.015	1.00	32.34	D	C
	ATOM	5210	CG	TYR	D	109	-13.213	63.559	17.036	1.00	33.46	D	C
	ATOM	5211	CD1	TYR	D	109	-12.881	62.269	17.459	1.00	34.48	D	C
	ATOM	5212	CE1	TYR	D	109	-11.876	62.054	18.399	1.00	33.07	D	C
55	ATOM	5213	CD2	TYR	D	109	-12.511	64.629	17.584	1.00	32.05	D	C
	ATOM	5214	CE2	TYR	D	109	-11.505	64.424	18.524	1.00	31.57	D	C
	ATOM	5215	CZ	TYR	D	109	-11.191	63.137	18.925	1.00	32.08	D	C
	ATOM	5216	OH	TYR	D	109	-10.183	62.930	19.839	1.00	33.44	D	O
	ATOM	5217	C	TYR	D	109	-16.788	63.611	15.765	1.00	31.68	D	C
60	ATOM	5218	O	TYR	D	109	-17.006	64.780	16.082	1.00	31.61	D	O
	ATOM	5219	N	GLN	D	110	-17.621	62.901	15.015	1.00	30.55	D	N
	ATOM	5220	CA	GLN	D	110	-18.858	63.471	14.496	1.00	30.41	D	C
	ATOM	5221	CB	GLN	D	110	-19.642	62.420	13.696	1.00	31.07	D	C
	ATOM	5222	CG	GLN	D	110	-20.847	62.978	12.938	1.00	31.57	D	C
65	ATOM	5223	CD	GLN	D	110	-20.447	63.878	11.776	1.00	30.74	D	C
	ATOM	5224	OE1	GLN	D	110	-19.261	64.059	11.505	1.00	29.76	D	O
	ATOM	5225	NE2	GLN	D	110	-21.437	64.445	11.087	1.00	28.31	D	N
	ATOM	5226	C	GLN	D	110	-19.725	63.970	15.634	1.00	29.69	D	C

	ATOM	5227	O	GLN	D	110	-20.608	64.810	15.441	1.00	30.20	D	O
	ATOM	5228	N	THR	D	111	-19.457	63.451	16.825	1.00	28.26	D	N
	ATOM	5229	CA	THR	D	111	-20.229	63.808	17.997	1.00	26.23	D	C
5	ATOM	5230	CB	THR	D	111	-20.753	62.531	18.666	1.00	27.26	D	C
	ATOM	5231	OG1	THR	D	111	-21.834	62.866	19.535	1.00	31.64	D	O
	ATOM	5232	CG2	THR	D	111	-19.650	61.841	19.455	1.00	24.78	D	C
	ATOM	5233	C	THR	D	111	-19.454	64.655	19.014	1.00	25.56	D	C
	ATOM	5234	O	THR	D	111	-19.980	64.998	20.072	1.00	23.64	D	O
10	ATOM	5235	N	VAL	D	112	-18.214	65.005	18.676	1.00	24.16	D	N
	ATOM	5236	CA	VAL	D	112	-17.359	65.811	19.553	1.00	22.09	D	C
	ATOM	5237	CB	VAL	D	112	-15.894	65.324	19.505	1.00	20.25	D	C
	ATOM	5238	CG1	VAL	D	112	-15.042	66.139	20.465	1.00	20.03	D	C
	ATOM	5239	CG2	VAL	D	112	-15.820	63.846	19.838	1.00	19.82	D	C
	ATOM	5240	C	VAL	D	112	-17.352	67.292	19.173	1.00	21.76	D	C
15	ATOM	5241	O	VAL	D	112	-16.927	67.652	18.082	1.00	22.85	D	O
	ATOM	5242	N	PRO	D	113	-17.811	68.173	20.077	1.00	21.07	D	N
	ATOM	5243	CD	PRO	D	113	-18.354	67.878	21.411	1.00	18.73	D	C
	ATOM	5244	CA	PRO	D	113	-17.832	69.613	19.787	1.00	19.48	D	C
20	ATOM	5245	CB	PRO	D	113	-18.597	70.213	20.966	1.00	18.54	D	C
	ATOM	5246	CG	PRO	D	113	-19.242	69.049	21.661	1.00	18.11	D	C
	ATOM	5247	C	PRO	D	113	-16.429	70.204	19.675	1.00	20.41	D	C
	ATOM	5248	O	PRO	D	113	-15.450	69.602	20.118	1.00	20.81	D	O
	ATOM	5249	N	ASP	D	114	-16.332	71.382	19.073	1.00	21.88	D	N
25	ATOM	5250	CA	ASP	D	114	-15.048	72.050	18.937	1.00	23.29	D	C
	ATOM	5251	CB	ASP	D	114	-15.171	73.290	18.052	1.00	26.69	D	C
	ATOM	5252	CG	ASP	D	114	-15.324	72.961	16.582	1.00	30.64	D	C
	ATOM	5253	OD1	ASP	D	114	-14.605	72.068	16.079	1.00	33.34	D	O
	ATOM	5254	OD2	ASP	D	114	-16.169	73.609	15.924	1.00	32.70	D	O
30	ATOM	5255	C	ASP	D	114	-14.622	72.516	20.320	1.00	23.25	D	C
	ATOM	5256	O	ASP	D	114	-15.465	72.760	21.178	1.00	25.42	D	O
	ATOM	5257	N	PHE	D	115	-13.316	72.631	20.534	1.00	21.37	D	N
	ATOM	5258	CA	PHE	D	115	-12.773	73.136	21.790	1.00	18.97	D	C
	ATOM	5259	CB	PHE	D	115	-13.006	72.150	22.961	1.00	17.11	D	C
35	ATOM	5260	CG	PHE	D	115	-12.259	70.845	22.855	1.00	15.13	D	C
	ATOM	5261	CD1	PHE	D	115	-12.829	69.752	22.209	1.00	14.27	D	C
	ATOM	5262	CD2	PHE	D	115	-11.011	70.695	23.448	1.00	12.59	D	C
	ATOM	5263	CE1	PHE	D	115	-12.166	68.530	22.159	1.00	14.02	D	C
	ATOM	5264	CE2	PHE	D	115	-10.339	69.473	23.404	1.00	14.25	D	C
40	ATOM	5265	CZ	PHE	D	115	-10.916	68.389	22.759	1.00	13.60	D	C
	ATOM	5266	C	PHE	D	115	-11.294	73.462	21.582	1.00	20.17	D	C
	ATOM	5267	O	PHE	D	115	-10.644	72.908	20.688	1.00	21.70	D	O
	ATOM	5268	N	GLN	D	116	-10.773	74.390	22.378	1.00	18.39	D	N
	ATOM	5269	CA	GLN	D	116	-9.388	74.800	22.248	1.00	16.82	D	C
45	ATOM	5270	CB	GLN	D	116	-9.190	76.148	22.931	1.00	17.62	D	C
	ATOM	5271	CG	GLN	D	116	-10.058	77.234	22.320	1.00	17.93	D	C
	ATOM	5272	CD	GLN	D	116	-9.840	78.591	22.951	1.00	23.31	D	C
	ATOM	5273	OE1	GLN	D	116	-10.433	78.904	23.982	1.00	24.53	D	O
	ATOM	5274	NE2	GLN	D	116	-8.988	79.410	22.331	1.00	22.00	D	N
50	ATOM	5275	C	GLN	D	116	-8.420	73.774	22.796	1.00	17.83	D	C
	ATOM	5276	O	GLN	D	116	-8.583	73.266	23.907	1.00	18.57	D	O
	ATOM	5277	N	ARG	D	117	-7.405	73.466	22.002	1.00	16.69	D	N
	ATOM	5278	CA	ARG	D	117	-6.413	72.494	22.406	1.00	18.27	D	C
	ATOM	5279	CB	ARG	D	117	-6.285	71.408	21.341	1.00	17.99	D	C
55	ATOM	5280	CG	ARG	D	117	-7.473	70.461	21.314	1.00	20.17	D	C
	ATOM	5281	CD	ARG	D	117	-7.613	69.823	19.955	1.00	20.57	D	C
	ATOM	5282	NE	ARG	D	117	-8.531	68.690	19.965	1.00	20.76	D	N
	ATOM	5283	CZ	ARG	D	117	-9.779	68.743	19.515	1.00	20.87	D	C
	ATOM	5284	NH1	ARG	D	117	-10.254	69.878	19.025	1.00	19.76	D	N
60	ATOM	5285	NH2	ARG	D	117	-10.544	67.657	19.533	1.00	21.17	D	N
	ATOM	5286	C	ARG	D	117	-5.069	73.146	22.643	1.00	17.47	D	C
	ATOM	5287	O	ARG	D	117	-4.796	74.244	22.152	1.00	16.85	D	O
	ATOM	5288	N	VAL	D	118	-4.231	72.475	23.419	1.00	18.33	D	N
	ATOM	5289	CA	VAL	D	118	-2.911	73.001	23.692	1.00	19.92	D	C
	ATOM	5290	CB	VAL	D	118	-2.594	73.029	25.228	1.00	19.52	D	C
65	ATOM	5291	CG1	VAL	D	118	-3.652	72.282	26.001	1.00	18.88	D	C
	ATOM	5292	CG2	VAL	D	118	-1.209	72.464	25.502	1.00	17.70	D	C
	ATOM	5293	C	VAL	D	118	-1.911	72.124	22.961	1.00	21.06	D	C
	ATOM	5294	O	VAL	D	118	-1.897	70.906	23.129	1.00	20.33	D	O

	ATOM	5295	N	GLN	D	119	-1.086	72.742	22.127	1.00	22.13	D	N
	ATOM	5296	CA	GLN	D	119	-0.095	71.981	21.399	1.00	23.66	D	C
	ATOM	5297	CB	GLN	D	119	-0.453	71.880	19.915	1.00	27.62	D	C
	ATOM	5298	CG	GLN	D	119	-1.174	73.072	19.328	1.00	34.11	D	C
5	ATOM	5299	CD	GLN	D	119	-1.305	72.955	17.813	1.00	38.99	D	C
	ATOM	5300	OE1	GLN	D	119	-0.398	73.342	17.066	1.00	40.57	D	O
	ATOM	5301	NE2	GLN	D	119	-2.429	72.408	17.354	1.00	36.83	D	N
	ATOM	5302	C	GLN	D	119	1.283	72.578	21.565	1.00	21.98	D	C
10	ATOM	5303	O	GLN	D	119	1.441	73.784	21.738	1.00	21.91	D	O
	ATOM	5304	N	ILE	D	120	2.274	71.700	21.529	1.00	20.02	D	N
	ATOM	5305	CA	ILE	D	120	3.662	72.071	21.688	1.00	21.05	D	C
	ATOM	5306	CB	ILE	D	120	4.362	71.123	22.692	1.00	18.08	D	C
	ATOM	5307	CG2	ILE	D	120	5.763	71.618	22.997	1.00	16.36	D	C
	ATOM	5308	CG1	ILE	D	120	3.517	70.995	23.965	1.00	18.01	D	C
15	ATOM	5309	CD1	ILE	D	120	3.092	72.316	24.583	1.00	15.57	D	C
	ATOM	5310	C	ILE	D	120	4.350	71.954	20.339	1.00	23.87	D	C
	ATOM	5311	O	ILE	D	120	4.208	70.946	19.647	1.00	24.34	D	O
	ATOM	5312	N	THR	D	121	5.092	72.991	19.970	1.00	26.48	D	N
20	ATOM	5313	CA	THR	D	121	5.821	73.007	18.708	1.00	28.63	D	C
	ATOM	5314	CB	THR	D	121	5.735	74.383	18.040	1.00	27.26	D	C
	ATOM	5315	OG1	THR	D	121	6.532	75.316	18.774	1.00	27.75	D	O
	ATOM	5316	CG2	THR	D	121	4.302	74.870	18.010	1.00	28.06	D	C
	ATOM	5317	C	THR	D	121	7.284	72.682	18.978	1.00	29.73	D	C
	ATOM	5318	O	THR	D	121	7.738	72.767	20.114	1.00	31.64	D	O
25	ATOM	5319	N	GLY	D	122	8.015	72.292	17.941	1.00	32.19	D	N
	ATOM	5320	CA	GLY	D	122	9.421	71.974	18.112	1.00	35.28	D	C
	ATOM	5321	C	GLY	D	122	9.731	70.507	18.345	1.00	38.59	D	C
	ATOM	5322	O	GLY	D	122	8.838	69.704	18.621	1.00	38.84	D	O
	ATOM	5323	N	ASP	D	123	11.014	70.167	18.233	1.00	42.30	D	N
30	ATOM	5324	CA	ASP	D	123	11.494	68.798	18.422	1.00	45.49	D	C
	ATOM	5325	CB	ASP	D	123	12.831	68.596	17.700	1.00	48.98	D	C
	ATOM	5326	CG	ASP	D	123	12.716	68.756	16.194	1.00	52.99	D	C
	ATOM	5327	OD1	ASP	D	123	11.802	68.138	15.601	1.00	54.71	D	O
	ATOM	5328	OD2	ASP	D	123	13.539	69.498	15.606	1.00	55.34	D	O
35	ATOM	5329	C	ASP	D	123	11.686	68.518	19.903	1.00	46.24	D	C
	ATOM	5330	O	ASP	D	123	12.225	69.355	20.631	1.00	46.27	D	O
	ATOM	5331	N	TYR	D	124	11.263	67.338	20.345	1.00	45.25	D	N
	ATOM	5332	CA	TYR	D	124	11.392	66.977	21.752	1.00	44.84	D	C
	ATOM	5333	CB	TYR	D	124	10.417	65.848	22.096	1.00	42.28	D	C
40	ATOM	5334	CG	TYR	D	124	9.056	66.349	22.515	1.00	40.28	D	C
	ATOM	5335	CD1	TYR	D	124	8.030	66.491	21.584	1.00	38.64	D	C
	ATOM	5336	CE1	TYR	D	124	6.780	66.986	21.957	1.00	38.50	D	C
	ATOM	5337	CD2	TYR	D	124	8.800	66.712	23.836	1.00	37.48	D	C
	ATOM	5338	CE2	TYR	D	124	7.554	67.208	24.218	1.00	36.40	D	C
45	ATOM	5339	CZ	TYR	D	124	6.550	67.342	23.272	1.00	36.98	D	C
	ATOM	5340	OH	TYR	D	124	5.319	67.837	23.634	1.00	35.23	D	O
	ATOM	5341	C	TYR	D	124	12.817	66.575	22.123	1.00	46.13	D	C
	ATOM	5342	O	TYR	D	124	13.302	65.542	21.612	1.00	47.08	D	O
	ATOM	5343	OT	TYR	D	124	13.436	67.310	22.926	1.00	47.94	D	O
50	ATOM	5344	CB	ASP	E	132	20.466	59.129	27.264	1.00	55.90	E	C
	ATOM	5345	CG	ASP	E	132	20.102	59.494	28.698	1.00	58.10	E	C
	ATOM	5346	OD1	ASP	E	132	19.200	60.343	28.885	1.00	59.02	E	O
	ATOM	5347	OD2	ASP	E	132	20.720	58.936	29.635	1.00	59.13	E	O
	ATOM	5348	C	ASP	E	132	18.439	57.705	26.922	1.00	51.50	E	C
55	ATOM	5349	O	ASP	E	132	17.854	56.904	27.649	1.00	51.69	E	O
	ATOM	5350	N	ASP	E	132	20.413	57.405	25.474	1.00	53.43	E	N
	ATOM	5351	CA	ASP	E	132	19.959	57.738	26.860	1.00	53.54	E	C
	ATOM	5352	N	PHE	E	133	17.806	58.585	26.155	1.00	50.07	E	N
	ATOM	5353	CA	PHE	E	133	16.352	58.647	26.103	1.00	48.42	E	C
60	ATOM	5354	CB	PHE	E	133	15.905	59.834	25.241	1.00	46.40	E	C
	ATOM	5355	CG	PHE	E	133	14.428	59.869	24.969	1.00	46.11	E	C
	ATOM	5356	CD1	PHE	E	133	13.953	60.099	23.677	1.00	44.99	E	C
	ATOM	5357	CD2	PHE	E	133	13.507	59.665	26.002	1.00	45.35	E	C
	ATOM	5358	CE1	PHE	E	133	12.581	60.125	23.412	1.00	44.34	E	C
65	ATOM	5359	CE2	PHE	E	133	12.133	59.687	25.754	1.00	44.27	E	C
	ATOM	5360	CZ	PHE	E	133	11.667	59.918	24.454	1.00	46.01	E	C
	ATOM	5361	C	PHE	E	133	15.864	57.340	25.487	1.00	47.75	E	C
	ATOM	5362	O	PHE	E	133	14.773	56.854	25.799	1.00	48.29	E	O

	ATOM	5363	N	GLU	E	134	16.693	56.772	24.617	1.00	46.40	E	N
	ATOM	5364	CA	GLU	E	134	16.366	55.524	23.950	1.00	45.22	E	C
	ATOM	5365	CB	GLU	E	134	17.460	55.167	22.941	1.00	48.09	E	C
	ATOM	5366	CG	GLU	E	134	16.934	54.575	21.643	1.00	52.30	E	C
5	ATOM	5367	CD	GLU	E	134	17.700	53.336	21.211	1.00	55.29	E	C
	ATOM	5368	OE1	GLU	E	134	18.808	53.103	21.745	1.00	57.14	E	O
	ATOM	5369	OE2	GLU	E	134	17.194	52.597	20.337	1.00	56.56	E	O
	ATOM	5370	C	GLU	E	134	16.214	54.402	24.969	1.00	43.65	E	C
	ATOM	5371	O	GLU	E	134	15.312	53.566	24.859	1.00	42.16	E	O
10	ATOM	5372	N	ILE	E	135	17.098	54.380	25.961	1.00	40.84	E	N
	ATOM	5373	CA	ILE	E	135	17.038	53.346	26.982	1.00	38.86	E	C
	ATOM	5374	CB	ILE	E	135	18.328	53.320	27.844	1.00	40.94	E	C
	ATOM	5375	CG2	ILE	E	135	19.534	53.677	26.986	1.00	40.80	E	C
	ATOM	5376	CG1	ILE	E	135	18.202	54.288	29.024	1.00	43.56	E	C
15	ATOM	5377	CD1	ILE	E	135	17.801	53.620	30.333	1.00	44.41	E	C
	ATOM	5378	C	ILE	E	135	15.825	53.582	27.870	1.00	36.56	E	C
	ATOM	5379	O	ILE	E	135	15.274	52.648	28.454	1.00	36.80	E	O
	ATOM	5380	N	VAL	E	136	15.408	54.839	27.969	1.00	34.51	E	N
	ATOM	5381	CA	VAL	E	136	14.246	55.179	28.780	1.00	31.36	E	C
20	ATOM	5382	CB	VAL	E	136	14.120	56.711	28.978	1.00	29.67	E	C
	ATOM	5383	CG1	VAL	E	136	12.787	57.052	29.614	1.00	28.84	E	C
	ATOM	5384	CG2	VAL	E	136	15.250	57.213	29.848	1.00	28.78	E	C
	ATOM	5385	C	VAL	E	136	12.998	54.659	28.073	1.00	29.93	E	C
	ATOM	5386	O	VAL	E	136	12.127	54.053	28.696	1.00	28.92	E	O
25	ATOM	5387	N	CYS	E	137	12.923	54.894	26.765	1.00	28.66	E	N
	ATOM	5388	CA	CYS	E	137	11.783	54.452	25.970	1.00	27.91	E	C
	ATOM	5389	CB	CYS	E	137	11.894	55.002	24.548	1.00	28.13	E	C
	ATOM	5390	SG	CYS	E	137	11.399	56.736	24.388	1.00	30.03	E	S
	ATOM	5391	C	CYS	E	137	11.713	52.930	25.931	1.00	27.48	E	C
30	ATOM	5392	O	CYS	E	137	10.629	52.347	25.918	1.00	26.70	E	O
	ATOM	5393	N	LYS	E	138	12.880	52.296	25.916	1.00	26.59	E	N
	ATOM	5394	CA	LYS	E	138	12.967	50.844	25.879	1.00	26.15	E	C
	ATOM	5395	CB	LYS	E	138	14.410	50.412	25.642	1.00	27.91	E	C
	ATOM	5396	CG	LYS	E	138	14.882	50.611	24.213	1.00	34.72	E	C
35	ATOM	5397	CD	LYS	E	138	16.232	49.948	23.995	1.00	38.32	E	C
	ATOM	5398	CE	LYS	E	138	16.688	50.081	22.554	1.00	40.92	E	C
	ATOM	5399	NZ	LYS	E	138	17.201	48.782	22.030	1.00	42.63	E	N
	ATOM	5400	C	LYS	E	138	12.461	50.231	27.179	1.00	24.52	E	C
	ATOM	5401	O	LYS	E	138	11.817	49.183	27.167	1.00	23.48	E	O
40	ATOM	5402	N	GLY	E	139	12.763	50.885	28.299	1.00	23.18	E	N
	ATOM	5403	CA	GLY	E	139	12.326	50.390	29.593	1.00	22.05	E	C
	ATOM	5404	C	GLY	E	139	10.821	50.486	29.743	1.00	21.53	E	C
	ATOM	5405	O	GLY	E	139	10.171	49.541	30.196	1.00	22.54	E	O
	ATOM	5406	N	LEU	E	140	10.264	51.629	29.354	1.00	20.41	E	N
45	ATOM	5407	CA	LEU	E	140	8.825	51.849	29.440	1.00	20.30	E	C
	ATOM	5408	CB	LEU	E	140	8.490	53.292	29.055	1.00	20.81	E	C
	ATOM	5409	CG	LEU	E	140	8.910	54.353	30.085	1.00	20.83	E	C
	ATOM	5410	CD1	LEU	E	140	8.580	55.744	29.566	1.00	19.09	E	C
	ATOM	5411	CD2	LEU	E	140	8.196	54.107	31.403	1.00	18.29	E	C
50	ATOM	5412	C	LEU	E	140	8.083	50.870	28.534	1.00	20.91	E	C
	ATOM	5413	O	LEU	E	140	7.009	50.370	28.887	1.00	19.88	E	O
	ATOM	5414	N	TYR	E	141	8.663	50.589	27.369	1.00	20.71	E	N
	ATOM	5415	CA	TYR	E	141	8.059	49.651	26.433	1.00	19.10	E	C
	ATOM	5416	CB	TYR	E	141	8.877	49.593	25.136	1.00	20.13	E	C
55	ATOM	5417	CG	TYR	E	141	8.578	48.375	24.291	1.00	19.99	E	C
	ATOM	5418	CD1	TYR	E	141	9.451	47.295	24.269	1.00	21.78	E	C
	ATOM	5419	CE1	TYR	E	141	9.161	46.150	23.532	1.00	24.21	E	C
	ATOM	5420	CD2	TYR	E	141	7.400	48.287	23.547	1.00	21.54	E	C
	ATOM	5421	CE2	TYR	E	141	7.098	47.147	22.806	1.00	21.21	E	C
60	ATOM	5422	CZ	TYR	E	141	7.983	46.081	22.809	1.00	23.83	E	C
	ATOM	5423	OH	TYR	E	141	7.683	44.926	22.124	1.00	29.70	E	O
	ATOM	5424	C	TYR	E	141	7.990	48.258	27.062	1.00	17.83	E	C
	ATOM	5425	O	TYR	E	141	6.942	47.616	27.061	1.00	18.08	E	O
	ATOM	5426	N	ARG	E	142	9.108	47.795	27.610	1.00	17.63	E	N
65	ATOM	5427	CA	ARG	E	142	9.152	46.474	28.220	1.00	18.91	E	C
	ATOM	5428	CB	ARG	E	142	10.588	46.108	28.601	1.00	19.65	E	C
	ATOM	5429	CG	ARG	E	142	10.659	44.969	29.597	1.00	23.14	E	C
	ATOM	5430	CD	ARG	E	142	11.959	44.184	29.530	1.00	23.17	E	C

5	ATOM	5431	NE	ARG	E	142	11.839	42.972	30.338	1.00	27.01	E	N
	ATOM	5432	CZ	ARG	E	142	12.836	42.394	31.000	1.00	27.89	E	C
	ATOM	5433	NH1	ARG	E	142	14.056	42.919	30.955	1.00	26.08	E	N
	ATOM	5434	NH2	ARG	E	142	12.603	41.296	31.719	1.00	24.05	E	N
	ATOM	5435	C	ARG	E	142	8.245	46.370	29.444	1.00	18.90	E	C
	ATOM	5436	O	ARG	E	142	7.664	45.318	29.704	1.00	19.56	E	O
	ATOM	5437	N	ALA	E	143	8.119	47.460	30.195	1.00	18.59	E	N
10	ATOM	5438	CA	ALA	E	143	7.262	47.463	31.379	1.00	17.74	E	C
	ATOM	5439	CB	ALA	E	143	7.426	48.768	32.141	1.00	17.02	E	C
	ATOM	5440	C	ALA	E	143	5.799	47.264	30.981	1.00	17.84	E	C
	ATOM	5441	O	ALA	E	143	5.061	46.526	31.640	1.00	16.49	E	O
	ATOM	5442	N	LEU	E	144	5.381	47.922	29.901	1.00	17.57	E	N
	ATOM	5443	CA	LEU	E	144	4.008	47.794	29.422	1.00	15.69	E	C
	ATOM	5444	CB	LEU	E	144	3.723	48.859	28.358	1.00	16.26	E	C
15	ATOM	5445	CG	LEU	E	144	3.518	50.286	28.879	1.00	16.60	E	C
	ATOM	5446	CD1	LEU	E	144	3.467	51.277	27.733	1.00	15.16	E	C
	ATOM	5447	CD2	LEU	E	144	2.228	50.341	29.685	1.00	15.48	E	C
	ATOM	5448	C	LEU	E	144	3.796	46.396	28.842	1.00	16.46	E	C
	ATOM	5449	O	LEU	E	144	2.698	45.837	28.906	1.00	15.41	E	O
	ATOM	5450	N	CYS	E	145	4.862	45.834	28.278	1.00	17.96	E	N
	ATOM	5451	CA	CYS	E	145	4.811	44.503	27.695	1.00	20.44	E	C
20	ATOM	5452	CB	CYS	E	145	6.093	44.212	26.914	1.00	24.87	E	C
	ATOM	5453	SG	CYS	E	145	5.913	44.383	25.128	1.00	36.37	E	S
	ATOM	5454	C	CYS	E	145	4.648	43.470	28.797	1.00	18.91	E	C
	ATOM	5455	O	CYS	E	145	3.917	42.490	28.642	1.00	19.87	E	O
	ATOM	5456	N	ILE	E	146	5.344	43.690	29.907	1.00	17.09	E	N
	ATOM	5457	CA	ILE	E	146	5.265	42.789	31.048	1.00	16.09	E	C
	ATOM	5458	CB	ILE	E	146	6.231	43.236	32.170	1.00	16.08	E	C
25	ATOM	5459	CG2	ILE	E	146	5.852	42.581	33.492	1.00	17.04	E	C
	ATOM	5460	CG1	ILE	E	146	7.664	42.863	31.792	1.00	13.93	E	C
	ATOM	5461	CD1	ILE	E	146	8.716	43.631	32.547	1.00	11.86	E	C
	ATOM	5462	C	ILE	E	146	3.834	42.758	31.588	1.00	16.39	E	C
	ATOM	5463	O	ILE	E	146	3.260	41.681	31.779	1.00	18.27	E	O
	ATOM	5464	N	ARG	E	147	3.244	43.931	31.812	1.00	15.38	E	N
	ATOM	5465	CA	ARG	E	147	1.883	43.979	32.343	1.00	15.50	E	C
30	ATOM	5466	CB	ARG	E	147	1.461	45.417	32.663	1.00	12.81	E	C
	ATOM	5467	CG	ARG	E	147	-0.028	45.510	33.037	1.00	11.26	E	C
	ATOM	5468	CD	ARG	E	147	-0.393	46.784	33.765	1.00	8.01	E	C
	ATOM	5469	NE	ARG	E	147	-1.809	46.808	34.146	1.00	9.56	E	N
	ATOM	5470	CZ	ARG	E	147	-2.312	46.233	35.239	1.00	9.35	E	C
	ATOM	5471	NH1	ARG	E	147	-1.514	45.574	36.075	1.00	8.24	E	N
	ATOM	5472	NH2	ARG	E	147	-3.612	46.332	35.509	1.00	7.25	E	N
35	ATOM	5473	C	ARG	E	147	0.856	43.353	31.401	1.00	16.44	E	C
	ATOM	5474	O	ARG	E	147	-0.029	42.609	31.843	1.00	17.41	E	O
	ATOM	5475	N	GLU	E	148	0.962	43.666	30.109	1.00	17.13	E	N
	ATOM	5476	CA	GLU	E	148	0.040	43.117	29.113	1.00	16.79	E	C
	ATOM	5477	CB	GLU	E	148	0.394	43.613	27.707	1.00	17.91	E	C
	ATOM	5478	CG	GLU	E	148	-0.491	43.001	26.617	1.00	17.92	E	C
	ATOM	5479	CD	GLU	E	148	0.020	43.260	25.214	1.00	20.62	E	C
40	ATOM	5480	OE1	GLU	E	148	-0.747	43.811	24.392	1.00	21.66	E	O
	ATOM	5481	OE2	GLU	E	148	1.186	42.914	24.931	1.00	20.32	E	O
	ATOM	5482	C	GLU	E	148	0.083	41.595	29.112	1.00	17.57	E	C
	ATOM	5483	O	GLU	E	148	-0.950	40.935	29.038	1.00	18.77	E	O
	ATOM	5484	N	LYS	E	149	1.291	41.044	29.189	1.00	18.36	E	N
	ATOM	5485	CA	LYS	E	149	1.484	39.602	29.200	1.00	19.14	E	C
	ATOM	5486	CB	LYS	E	149	2.981	39.285	29.190	1.00	19.20	E	C
45	ATOM	5487	CG	LYS	E	149	3.307	37.798	29.230	1.00	22.61	E	C
	ATOM	5488	CD	LYS	E	149	4.810	37.552	29.210	1.00	24.77	E	C
	ATOM	5489	CE	LYS	E	149	5.480	38.102	30.476	1.00	29.86	E	C
	ATOM	5490	NZ	LYS	E	149	6.969	37.878	30.519	1.00	29.93	E	N
	ATOM	5491	C	LYS	E	149	0.822	38.936	30.407	1.00	21.10	E	C
	ATOM	5492	O	LYS	E	149	0.087	37.952	30.258	1.00	22.47	E	O
	ATOM	5493	N	TYR	E	150	1.077	39.476	31.599	1.00	20.33	E	N
50	ATOM	5494	CA	TYR	E	150	0.520	38.918	32.823	1.00	19.30	E	C
	ATOM	5495	CB	TYR	E	150	1.223	39.537	34.039	1.00	23.47	E	C
	ATOM	5496	CG	TYR	E	150	2.644	39.042	34.216	1.00	24.78	E	C
	ATOM	5497	CD1	TYR	E	150	2.934	37.986	35.072	1.00	26.89	E	C
	ATOM	5498	CE1	TYR	E	150	4.236	37.484	35.183	1.00	27.87	E	C

	ATOM	5499	CD2	TYR	E	150	3.693	39.594	33.480	1.00	26.69	E	C
	ATOM	5500	CE2	TYR	E	150	4.994	39.101	33.588	1.00	25.64	E	C
	ATOM	5501	CZ	TYR	E	150	5.254	38.047	34.436	1.00	25.48	E	C
	ATOM	5502	OH	TYR	E	150	6.524	37.536	34.521	1.00	27.21	E	O
5	ATOM	5503	C	TYR	E	150	-0.986	39.100	32.922	1.00	18.18	E	C
	ATOM	5504	O	TYR	E	150	-1.674	38.282	33.529	1.00	18.34	E	O
	ATOM	5505	N	MET	E	151	-1.507	40.165	32.322	1.00	18.51	E	N
	ATOM	5506	CA	MET	E	151	-2.945	40.405	32.357	1.00	18.26	E	C
	ATOM	5507	CB	MET	E	151	-3.261	41.830	31.893	1.00	17.67	E	C
10	ATOM	5508	CG	MET	E	151	-2.975	42.916	32.929	1.00	20.31	E	C
	ATOM	5509	SD	MET	E	151	-3.658	42.617	34.599	1.00	17.34	E	S
	ATOM	5510	CE	MET	E	151	-2.209	41.993	35.441	1.00	13.60	E	C
	ATOM	5511	C	MET	E	151	-3.689	39.399	31.472	1.00	18.97	E	C
	ATOM	5512	O	MET	E	151	-4.649	38.761	31.904	1.00	20.22	E	O
15	ATOM	5513	N	LEU	E	152	-3.243	39.254	30.228	1.00	20.56	E	N
	ATOM	5514	CA	LEU	E	152	-3.883	38.327	29.294	1.00	21.11	E	C
	ATOM	5515	CB	LEU	E	152	-3.260	38.467	27.900	1.00	23.08	E	C
	ATOM	5516	CG	LEU	E	152	-3.325	39.856	27.252	1.00	26.12	E	C
	ATOM	5517	CD1	LEU	E	152	-2.839	39.769	25.814	1.00	26.32	E	C
20	ATOM	5518	CD2	LEU	E	152	-4.751	40.388	27.304	1.00	26.30	E	C
	ATOM	5519	C	LEU	E	152	-3.764	36.882	29.755	1.00	20.39	E	C
	ATOM	5520	O	LEU	E	152	-4.705	36.099	29.631	1.00	21.39	E	O
	ATOM	5521	N	LYS	E	153	-2.602	36.534	30.293	1.00	20.26	E	N
	ATOM	5522	CA	LYS	E	153	-2.347	35.183	30.762	1.00	21.55	E	C
25	ATOM	5523	CB	LYS	E	153	-0.876	35.048	31.142	1.00	23.55	E	C
	ATOM	5524	CG	LYS	E	153	-0.458	33.634	31.489	1.00	27.80	E	C
	ATOM	5525	CD	LYS	E	153	0.930	33.602	32.119	1.00	31.83	E	C
	ATOM	5526	CE	LYS	E	153	1.960	34.332	31.263	1.00	33.99	E	C
	ATOM	5527	NZ	LYS	E	153	3.138	34.764	32.076	1.00	38.65	E	N
30	ATOM	5528	C	LYS	E	153	-3.226	34.765	31.941	1.00	22.20	E	C
	ATOM	5529	O	LYS	E	153	-3.386	33.573	32.203	1.00	22.27	E	O
	ATOM	5530	N	SER	E	154	-3.793	35.740	32.649	1.00	21.57	E	N
	ATOM	5531	CA	SER	E	154	-4.640	35.446	33.802	1.00	21.43	E	C
	ATOM	5532	CB	SER	E	154	-4.113	36.148	35.062	1.00	21.16	E	C
35	ATOM	5533	OG	SER	E	154	-4.048	37.560	34.891	1.00	21.17	E	O
	ATOM	5534	C	SER	E	154	-6.070	35.872	33.555	1.00	22.13	E	C
	ATOM	5535	O	SER	E	154	-6.878	35.922	34.486	1.00	23.81	E	O
	ATOM	5536	N	PHE	E	155	-6.378	36.185	32.300	1.00	19.82	E	N
	ATOM	5537	CA	PHE	E	155	-7.718	36.599	31.920	1.00	17.90	E	C
40	ATOM	5538	CB	PHE	E	155	-8.701	35.455	32.163	1.00	20.09	E	C
	ATOM	5539	CG	PHE	E	155	-8.426	34.251	31.314	1.00	24.26	E	C
	ATOM	5540	CD1	PHE	E	155	-8.994	34.131	30.047	1.00	25.61	E	C
	ATOM	5541	CD2	PHE	E	155	-7.543	33.267	31.751	1.00	24.73	E	C
	ATOM	5542	CE1	PHE	E	155	-8.680	33.047	29.223	1.00	26.33	E	C
45	ATOM	5543	CE2	PHE	E	155	-7.223	32.181	30.934	1.00	25.77	E	C
	ATOM	5544	CZ	PHE	E	155	-7.792	32.073	29.668	1.00	26.57	E	C
	ATOM	5545	C	PHE	E	155	-8.186	37.863	32.620	1.00	16.79	E	C
	ATOM	5546	O	PHE	E	155	-9.357	38.003	32.974	1.00	15.69	E	O
	ATOM	5547	N	GLN	E	156	-7.258	38.788	32.816	1.00	15.78	E	N
50	ATOM	5548	CA	GLN	E	156	-7.584	40.058	33.434	1.00	16.89	E	C
	ATOM	5549	CB	GLN	E	156	-6.614	40.356	34.575	1.00	15.32	E	C
	ATOM	5550	CG	GLN	E	156	-6.851	39.428	35.774	1.00	14.10	E	C
	ATOM	5551	CD	GLN	E	156	-6.087	39.846	37.009	1.00	16.60	E	C
	ATOM	5552	OE1	GLN	E	156	-4.885	39.580	37.136	1.00	15.26	E	O
55	ATOM	5553	NE2	GLN	E	156	-6.777	40.506	37.933	1.00	12.97	E	N
	ATOM	5554	C	GLN	E	156	-7.521	41.103	32.326	1.00	18.29	E	C
	ATOM	5555	O	GLN	E	156	-7.062	40.806	31.220	1.00	19.61	E	O
	ATOM	5556	N	ARG	E	157	-7.977	42.318	32.608	1.00	18.67	E	N
	ATOM	5557	CA	ARG	E	157	-8.024	43.364	31.590	1.00	17.68	E	C
60	ATOM	5558	CB	ARG	E	157	-9.231	44.268	31.875	1.00	16.17	E	C
	ATOM	5559	CG	ARG	E	157	-10.526	43.479	32.117	1.00	15.56	E	C
	ATOM	5560	CD	ARG	E	157	-11.677	44.362	32.615	1.00	15.04	E	C
	ATOM	5561	NE	ARG	E	157	-11.448	44.854	33.973	1.00	14.94	E	N
	ATOM	5562	CZ	ARG	E	157	-12.302	45.610	34.653	1.00	12.63	E	C
65	ATOM	5563	NH1	ARG	E	157	-12.003	46.010	35.878	1.00	13.30	E	N
	ATOM	5564	NH2	ARG	E	157	-13.454	45.965	34.117	1.00	13.39	E	N
	ATOM	5565	C	ARG	E	157	-6.786	44.224	31.332	1.00	18.61	E	C
	ATOM	5566	O	ARG	E	157	-5.986	44.493	32.235	1.00	18.47	E	O

	ATOM	5567	N	PHE	E	158	-6.639	44.627	30.066	1.00	18.70	E	N
	ATOM	5568	CA	PHE	E	158	-5.563	45.507	29.593	1.00	17.10	E	C
	ATOM	5569	CB	PHE	E	158	-4.339	44.719	29.139	1.00	15.37	E	C
	ATOM	5570	CG	PHE	E	158	-3.119	45.581	28.909	1.00	16.11	E	C
5	ATOM	5571	CD1	PHE	E	158	-2.738	45.945	27.621	1.00	14.94	E	C
	ATOM	5572	CD2	PHE	E	158	-2.354	46.031	29.981	1.00	15.16	E	C
	ATOM	5573	CE1	PHE	E	158	-1.613	46.743	27.397	1.00	14.06	E	C
	ATOM	5574	CE2	PHE	E	158	-1.225	46.830	29.769	1.00	17.07	E	C
10	ATOM	5575	CZ	PHE	E	158	-0.856	47.186	28.468	1.00	16.15	E	C
	ATOM	5576	C	PHE	E	158	-6.140	46.291	28.412	1.00	16.86	E	C
	ATOM	5577	O	PHE	E	158	-6.645	45.700	27.470	1.00	16.49	E	O
	ATOM	5578	N	PRO	E	159	-6.069	47.633	28.453	1.00	18.06	E	N
	ATOM	5579	CD	PRO	E	159	-5.430	48.424	29.517	1.00	15.54	E	C
	ATOM	5580	CA	PRO	E	159	-6.598	48.496	27.388	1.00	18.63	E	C
15	ATOM	5581	CB	PRO	E	159	-6.245	49.907	27.858	1.00	18.12	E	C
	ATOM	5582	CG	PRO	E	159	-5.122	49.708	28.831	1.00	18.00	E	C
	ATOM	5583	C	PRO	E	159	-6.071	48.209	25.979	1.00	19.26	E	C
	ATOM	5584	O	PRO	E	159	-4.940	47.757	25.798	1.00	19.25	E	O
	ATOM	5585	N	LYS	E	160	-6.909	48.492	24.986	1.00	20.34	E	N
20	ATOM	5586	CA	LYS	E	160	-6.568	48.264	23.590	1.00	20.49	E	C
	ATOM	5587	CB	LYS	E	160	-7.829	48.314	22.724	1.00	21.58	E	C
	ATOM	5588	CG	LYS	E	160	-8.610	47.013	22.699	1.00	24.21	E	C
	ATOM	5589	CD	LYS	E	160	-10.029	47.196	22.150	1.00	28.80	E	C
	ATOM	5590	CE	LYS	E	160	-10.705	48.464	22.681	1.00	30.32	E	C
25	ATOM	5591	NZ	LYS	E	160	-11.393	48.248	23.988	1.00	33.31	E	N
	ATOM	5592	C	LYS	E	160	-5.546	49.237	23.024	1.00	19.89	E	C
	ATOM	5593	O	LYS	E	160	-4.567	48.811	22.416	1.00	21.33	E	O
	ATOM	5594	N	THR	E	161	-5.744	50.537	23.226	1.00	18.75	E	N
	ATOM	5595	CA	THR	E	161	-4.807	51.482	22.643	1.00	20.14	E	C
30	ATOM	5596	CB	THR	E	161	-5.220	52.959	22.896	1.00	19.18	E	C
	ATOM	5597	OG1	THR	E	161	-4.395	53.535	23.904	1.00	25.71	E	O
	ATOM	5598	CG2	THR	E	161	-6.663	53.045	23.289	1.00	17.89	E	C
	ATOM	5599	C	THR	E	161	-3.342	51.250	22.997	1.00	19.98	E	C
	ATOM	5600	O	THR	E	161	-2.484	51.348	22.124	1.00	21.98	E	O
35	ATOM	5601	N	PRO	E	162	-3.020	50.948	24.269	1.00	19.45	E	N
	ATOM	5602	CD	PRO	E	162	-3.834	50.834	25.488	1.00	19.54	E	C
	ATOM	5603	CA	PRO	E	162	-1.593	50.720	24.545	1.00	19.15	E	C
	ATOM	5604	CB	PRO	E	162	-1.539	50.503	26.061	1.00	17.78	E	C
	ATOM	5605	CG	PRO	E	162	-2.825	51.031	26.576	1.00	16.21	E	C
40	ATOM	5606	C	PRO	E	162	-1.086	49.490	23.773	1.00	18.08	E	C
	ATOM	5607	O	PRO	E	162	0.062	49.431	23.355	1.00	18.13	E	O
	ATOM	5608	N	SER	E	163	-1.959	48.507	23.592	1.00	20.00	E	N
	ATOM	5609	CA	SER	E	163	-1.605	47.293	22.866	1.00	21.64	E	C
	ATOM	5610	CB	SER	E	163	-2.751	46.288	22.943	1.00	23.09	E	C
45	ATOM	5611	OG	SER	E	163	-2.829	45.712	24.238	1.00	26.33	E	O
	ATOM	5612	C	SER	E	163	-1.315	47.635	21.407	1.00	21.97	E	C
	ATOM	5613	O	SER	E	163	-0.333	47.164	20.830	1.00	20.99	E	O
	ATOM	5614	N	LYS	E	164	-2.176	48.461	20.820	1.00	20.88	E	N
	ATOM	5615	CA	LYS	E	164	-1.997	48.883	19.441	1.00	20.38	E	C
50	ATOM	5616	CB	LYS	E	164	-3.054	49.917	19.064	1.00	18.13	E	C
	ATOM	5617	CG	LYS	E	164	-4.403	49.303	18.783	1.00	18.25	E	C
	ATOM	5618	CD	LYS	E	164	-5.420	50.356	18.418	1.00	21.07	E	C
	ATOM	5619	CE	LYS	E	164	-6.796	49.743	18.300	1.00	24.49	E	C
	ATOM	5620	NZ	LYS	E	164	-7.859	50.756	18.546	1.00	28.45	E	N
55	ATOM	5621	C	LYS	E	164	-0.600	49.471	19.248	1.00	21.48	E	C
	ATOM	5622	O	LYS	E	164	0.086	49.150	18.275	1.00	21.88	E	O
	ATOM	5623	N	TYR	E	165	-0.169	50.318	20.180	1.00	20.19	E	N
	ATOM	5624	CA	TYR	E	165	1.155	50.921	20.073	1.00	20.44	E	C
	ATOM	5625	CB	TYR	E	165	1.315	52.052	21.087	1.00	19.02	E	C
60	ATOM	5626	CG	TYR	E	165	0.785	53.372	20.595	1.00	18.38	E	C
	ATOM	5627	CD1	TYR	E	165	1.586	54.231	19.849	1.00	17.98	E	C
	ATOM	5628	CE1	TYR	E	165	1.092	55.443	19.373	1.00	17.49	E	C
	ATOM	5629	CD2	TYR	E	165	-0.529	53.757	20.859	1.00	19.62	E	C
	ATOM	5630	CE2	TYR	E	165	-1.033	54.966	20.390	1.00	19.13	E	C
65	ATOM	5631	CZ	TYR	E	165	-0.215	55.800	19.647	1.00	18.93	E	C
	ATOM	5632	OH	TYR	E	165	-0.711	56.983	19.168	1.00	21.31	E	O
	ATOM	5633	C	TYR	E	165	2.279	49.906	20.272	1.00	22.45	E	C
	ATOM	5634	O	TYR	E	165	3.362	50.047	19.695	1.00	22.95	E	O

	ATOM	5635	N	LEU	E	166	2.030	48.888	21.089	1.00	22.28	E	N
	ATOM	5636	CA	LEU	E	166	3.045	47.872	21.342	1.00	22.43	E	C
	ATOM	5637	CB	LEU	E	166	2.628	46.979	22.520	1.00	23.40	E	C
5	ATOM	5638	CG	LEU	E	166	2.617	47.596	23.936	1.00	24.01	E	C
	ATOM	5639	CD1	LEU	E	166	2.077	46.575	24.928	1.00	22.72	E	C
	ATOM	5640	CD2	LEU	E	166	4.016	48.042	24.346	1.00	18.55	E	C
	ATOM	5641	C	LEU	E	166	3.253	47.032	20.085	1.00	22.85	E	C
	ATOM	5642	O	LEU	E	166	4.386	46.732	19.712	1.00	22.81	E	O
10	ATOM	5643	N	ARG	E	167	2.158	46.657	19.431	1.00	22.45	E	N
	ATOM	5644	CA	ARG	E	167	2.246	45.866	18.207	1.00	24.48	E	C
	ATOM	5645	CB	ARG	E	167	0.845	45.517	17.696	1.00	22.66	E	C
	ATOM	5646	CG	ARG	E	167	0.055	44.556	18.586	1.00	22.70	E	C
	ATOM	5647	CD	ARG	E	167	0.800	43.258	18.848	1.00	22.57	E	C
	ATOM	5648	NE	ARG	E	167	1.720	43.378	19.979	1.00	25.62	E	N
15	ATOM	5649	CZ	ARG	E	167	1.344	43.437	21.258	1.00	24.43	E	C
	ATOM	5650	NH1	ARG	E	167	0.059	43.384	21.583	1.00	23.43	E	N
	ATOM	5651	NH2	ARG	E	167	2.254	43.559	22.217	1.00	23.23	E	N
	ATOM	5652	C	ARG	E	167	3.014	46.662	17.139	1.00	25.52	E	C
20	ATOM	5653	O	ARG	E	167	3.877	46.117	16.448	1.00	24.65	E	O
	ATOM	5654	N	SER	E	168	2.707	47.954	17.025	1.00	26.68	E	N
	ATOM	5655	CA	SER	E	168	3.365	48.832	16.057	1.00	27.61	E	C
	ATOM	5656	CB	SER	E	168	2.808	50.250	16.146	1.00	28.14	E	C
	ATOM	5657	OG	SER	E	168	1.405	50.227	16.316	1.00	34.03	E	O
25	ATOM	5658	C	SER	E	168	4.857	48.901	16.292	1.00	27.75	E	C
	ATOM	5659	O	SER	E	168	5.649	48.791	15.360	1.00	29.12	E	O
	ATOM	5660	N	ILE	E	169	5.239	49.106	17.543	1.00	27.78	E	N
	ATOM	5661	CA	ILE	E	169	6.646	49.200	17.886	1.00	28.75	E	C
	ATOM	5662	CB	ILE	E	169	6.828	49.494	19.396	1.00	27.48	E	C
30	ATOM	5663	CG2	ILE	E	169	8.294	49.376	19.782	1.00	25.04	E	C
	ATOM	5664	CG1	ILE	E	169	6.282	50.894	19.711	1.00	28.04	E	C
	ATOM	5665	CD1	ILE	E	169	6.586	51.393	21.103	1.00	26.12	E	C
	ATOM	5666	C	ILE	E	169	7.347	47.899	17.531	1.00	30.05	E	C
	ATOM	5667	O	ILE	E	169	8.522	47.893	17.158	1.00	29.64	E	O
35	ATOM	5668	N	GLU	E	170	6.606	46.803	17.637	1.00	31.99	E	N
	ATOM	5669	CA	GLU	E	170	7.128	45.474	17.355	1.00	34.62	E	C
	ATOM	5670	CB	GLU	E	170	6.196	44.416	17.937	1.00	34.60	E	C
	ATOM	5671	CG	GLU	E	170	6.481	44.068	19.371	1.00	36.86	E	C
	ATOM	5672	CD	GLU	E	170	5.270	43.488	20.068	1.00	38.91	E	C
40	ATOM	5673	OE1	GLU	E	170	5.149	43.668	21.303	1.00	39.41	E	O
	ATOM	5674	OE2	GLU	E	170	4.439	42.856	19.376	1.00	40.35	E	O
	ATOM	5675	C	GLU	E	170	7.295	45.217	15.866	1.00	36.24	E	C
	ATOM	5676	O	GLU	E	170	8.178	44.462	15.454	1.00	35.96	E	O
	ATOM	5677	N	GLY	E	171	6.439	45.838	15.063	1.00	37.89	E	N
45	ATOM	5678	CA	GLY	E	171	6.511	45.647	13.630	1.00	40.37	E	C
	ATOM	5679	C	GLY	E	171	5.444	44.683	13.155	1.00	42.99	E	C
	ATOM	5680	O	GLY	E	171	5.498	44.194	12.026	1.00	44.19	E	O
	ATOM	5681	N	THR	E	172	4.473	44.403	14.020	1.00	44.67	E	N
	ATOM	5682	CA	THR	E	172	3.386	43.499	13.671	1.00	46.09	E	C
50	ATOM	5683	CB	THR	E	172	3.260	42.343	14.688	1.00	46.19	E	C
	ATOM	5684	OG1	THR	E	172	2.039	42.484	15.423	1.00	47.97	E	O
	ATOM	5685	CG2	THR	E	172	4.436	42.340	15.651	1.00	45.35	E	C
	ATOM	5686	C	THR	E	172	2.068	44.265	13.611	1.00	47.33	E	C
	ATOM	5687	O	THR	E	172	1.969	45.389	14.106	1.00	46.28	E	O
55	ATOM	5688	N	ALA	E	173	1.061	43.659	12.990	1.00	50.12	E	N
	ATOM	5689	CA	ALA	E	173	-0.249	44.289	12.857	1.00	52.01	E	C
	ATOM	5690	CB	ALA	E	173	-0.928	43.823	11.571	1.00	52.13	E	C
	ATOM	5691	C	ALA	E	173	-1.113	43.948	14.063	1.00	52.83	E	C
	ATOM	5692	O	ALA	E	173	-1.064	42.828	14.581	1.00	53.66	E	O
60	ATOM	5693	N	TRP	E	174	-1.906	44.915	14.509	1.00	53.07	E	N
	ATOM	5694	CA	TRP	E	174	-2.762	44.702	15.666	1.00	53.29	E	C
	ATOM	5695	CB	TRP	E	174	-3.244	46.040	16.231	1.00	51.56	E	C
	ATOM	5696	CG	TRP	E	174	-4.091	45.885	17.461	1.00	49.61	E	C
	ATOM	5697	CD2	TRP	E	174	-5.504	46.090	17.557	1.00	48.32	E	C
65	ATOM	5698	CE2	TRP	E	174	-5.878	45.799	18.888	1.00	47.77	E	C
	ATOM	5699	CE3	TRP	E	174	-6.492	46.489	16.645	1.00	48.46	E	C
	ATOM	5700	CD1	TRP	E	174	-3.676	45.492	18.703	1.00	48.12	E	C
	ATOM	5701	NE1	TRP	E	174	-4.744	45.439	19.565	1.00	46.28	E	N
	ATOM	5702	CZ2	TRP	E	174	-7.201	45.898	19.332	1.00	48.44	E	C

	ATOM	5703	CZ3	TRP	E	174	-7.811	46.586	17.087	1.00	48.86	E	C
	ATOM	5704	CH2	TRP	E	174	-8.151	46.291	18.421	1.00	48.77	E	C
	ATOM	5705	C	TRP	E	174	-3.958	43.815	15.353	1.00	54.21	E	C
	ATOM	5706	O	TRP	E	174	-4.714	44.075	14.417	1.00	54.68	E	O
5	ATOM	5707	N	LYS	E	175	-4.117	42.770	16.160	1.00	55.53	E	N
	ATOM	5708	CA	LYS	E	175	-5.208	41.815	16.016	1.00	57.49	E	C
	ATOM	5709	CB	LYS	E	175	-4.788	40.465	16.596	1.00	59.83	E	C
	ATOM	5710	CG	LYS	E	175	-3.847	40.575	17.790	1.00	61.93	E	C
10	ATOM	5711	CD	LYS	E	175	-3.291	39.210	18.184	1.00	63.98	E	C
	ATOM	5712	CE	LYS	E	175	-2.620	38.511	16.999	1.00	65.27	E	C
	ATOM	5713	NZ	LYS	E	175	-3.447	37.386	16.456	1.00	65.04	E	N
	ATOM	5714	C	LYS	E	175	-6.475	42.293	16.726	1.00	58.41	E	C
	ATOM	5715	O	LYS	E	175	-6.994	43.370	16.433	1.00	59.44	E	O
	ATOM	5716	N	ALA	E	176	-6.965	41.475	17.657	1.00	58.67	E	N
15	ATOM	5717	CA	ALA	E	176	-8.167	41.780	18.430	1.00	58.43	E	C
	ATOM	5718	CB	ALA	E	176	-9.294	42.241	17.507	1.00	57.51	E	C
	ATOM	5719	C	ALA	E	176	-8.605	40.542	19.208	1.00	58.92	E	C
	ATOM	5720	O	ALA	E	176	-9.758	40.442	19.635	1.00	59.67	E	O
	ATOM	5721	N	ASN	E	177	-7.680	39.600	19.385	1.00	58.92	E	N
20	ATOM	5722	CA	ASN	E	177	-7.956	38.357	20.105	1.00	58.41	E	C
	ATOM	5723	CB	ASN	E	177	-6.639	37.656	20.461	1.00	60.09	E	C
	ATOM	5724	CG	ASN	E	177	-5.796	38.456	21.449	1.00	61.89	E	C
	ATOM	5725	OD1	ASN	E	177	-5.858	39.687	21.484	1.00	62.50	E	O
	ATOM	5726	ND2	ASN	E	177	-5.004	37.756	22.258	1.00	62.24	E	N
25	ATOM	5727	C	ASN	E	177	-8.768	38.597	21.378	1.00	57.19	E	C
	ATOM	5728	O	ASN	E	177	-8.350	39.349	22.259	1.00	56.67	E	O
	ATOM	5729	N	GLU	E	178	-9.930	37.956	21.467	1.00	56.42	E	N
	ATOM	5730	CA	GLU	E	178	-10.789	38.103	22.638	1.00	56.05	E	C
	ATOM	5731	CB	GLU	E	178	-12.208	38.486	22.202	1.00	57.27	E	C
30	ATOM	5732	CG	GLU	E	178	-12.332	39.913	21.676	1.00	59.96	E	C
	ATOM	5733	CD	GLU	E	178	-12.020	40.972	22.732	1.00	62.07	E	C
	ATOM	5734	OE1	GLU	E	178	-10.877	41.005	23.237	1.00	62.23	E	O
	ATOM	5735	OE2	GLU	E	178	-12.919	41.779	23.054	1.00	63.29	E	O
	ATOM	5736	C	GLU	E	178	-10.820	36.822	23.482	1.00	54.50	E	C
35	ATOM	5737	O	GLU	E	178	-11.669	36.662	24.363	1.00	54.35	E	O
	ATOM	5738	N	SER	E	179	-9.878	35.920	23.212	1.00	52.49	E	N
	ATOM	5739	CA	SER	E	179	-9.782	34.650	23.929	1.00	49.77	E	C
	ATOM	5740	CB	SER	E	179	-8.819	33.706	23.199	1.00	48.06	E	C
	ATOM	5741	OG	SER	E	179	-7.990	34.418	22.298	1.00	49.07	E	O
40	ATOM	5742	C	SER	E	179	-9.324	34.812	25.381	1.00	47.95	E	C
	ATOM	5743	O	SER	E	179	-9.715	34.024	26.247	1.00	47.44	E	O
	ATOM	5744	N	SER	E	180	-8.498	35.826	25.642	1.00	45.39	E	N
	ATOM	5745	CA	SER	E	180	-7.984	36.079	26.989	1.00	43.96	E	C
	ATOM	5746	CB	SER	E	180	-6.533	36.553	26.918	1.00	44.71	E	C
45	ATOM	5747	OG	SER	E	180	-5.897	36.062	25.751	1.00	45.72	E	O
	ATOM	5748	C	SER	E	180	-8.823	37.112	27.729	1.00	42.80	E	C
	ATOM	5749	O	SER	E	180	-8.373	37.725	28.694	1.00	42.22	E	O
	ATOM	5750	N	TYR	E	181	-10.049	37.296	27.261	1.00	42.81	E	N
	ATOM	5751	CA	TYR	E	181	-10.983	38.242	27.854	1.00	42.86	E	C
50	ATOM	5752	CB	TYR	E	181	-12.088	38.556	26.847	1.00	47.36	E	C
	ATOM	5753	CG	TYR	E	181	-12.296	40.024	26.575	1.00	51.50	E	C
	ATOM	5754	CD1	TYR	E	181	-13.537	40.622	26.798	1.00	54.46	E	C
	ATOM	5755	CE1	TYR	E	181	-13.747	41.978	26.531	1.00	57.51	E	C
	ATOM	5756	CD2	TYR	E	181	-11.261	40.814	26.077	1.00	54.04	E	C
55	ATOM	5757	CE2	TYR	E	181	-11.456	42.172	25.805	1.00	57.05	E	C
	ATOM	5758	CZ	TYR	E	181	-12.702	42.749	26.034	1.00	59.03	E	C
	ATOM	5759	OH	TYR	E	181	-12.903	44.091	25.770	1.00	60.79	E	O
	ATOM	5760	C	TYR	E	181	-11.605	37.639	29.113	1.00	40.86	E	C
	ATOM	5761	O	TYR	E	181	-11.990	36.467	29.120	1.00	40.41	E	O
60	ATOM	5762	N	PRO	E	182	-11.698	38.426	30.199	1.00	38.87	E	N
	ATOM	5763	CD	PRO	E	182	-11.250	39.819	30.361	1.00	37.17	E	C
	ATOM	5764	CA	PRO	E	182	-12.295	37.890	31.430	1.00	37.69	E	C
	ATOM	5765	CB	PRO	E	182	-12.200	39.052	32.423	1.00	36.28	E	C
	ATOM	5766	CG	PRO	E	182	-11.975	40.266	31.590	1.00	36.10	E	C
65	ATOM	5767	C	PRO	E	182	-13.740	37.466	31.168	1.00	37.57	E	C
	ATOM	5768	O	PRO	E	182	-14.398	38.029	30.291	1.00	38.90	E	O
	ATOM	5769	N	VAL	E	183	-14.228	36.476	31.914	1.00	35.54	E	N
	ATOM	5770	CA	VAL	E	183	-15.594	35.992	31.736	1.00	32.51	E	C

	ATOM	5771	CB	VAL	E	183	-15.611	34.475	31.481	1.00	31.67	E	C
	ATOM	5772	CG1	VAL	E	183	-16.998	34.026	31.081	1.00	31.20	E	C
	ATOM	5773	CG2	VAL	E	183	-14.621	34.127	30.403	1.00	32.35	E	C
5	ATOM	5774	C	VAL	E	183	-16.492	36.296	32.934	1.00	32.85	E	C
	ATOM	5775	O	VAL	E	183	-16.456	35.595	33.945	1.00	32.11	E	O
	ATOM	5776	N	PHE	E	184	-17.295	37.349	32.814	1.00	34.50	E	N
	ATOM	5777	CA	PHE	E	184	-18.218	37.737	33.874	1.00	36.00	E	C
	ATOM	5778	CB	PHE	E	184	-18.546	39.226	33.777	1.00	39.46	E	C
10	ATOM	5779	CG	PHE	E	184	-17.380	40.123	34.079	1.00	43.73	E	C
	ATOM	5780	CD1	PHE	E	184	-17.358	40.888	35.240	1.00	45.41	E	C
	ATOM	5781	CD2	PHE	E	184	-16.299	40.205	33.200	1.00	46.01	E	C
	ATOM	5782	CE1	PHE	E	184	-16.275	41.725	35.526	1.00	47.18	E	C
	ATOM	5783	CE2	PHE	E	184	-15.211	41.038	33.477	1.00	46.38	E	C
15	ATOM	5784	CZ	PHE	E	184	-15.201	41.800	34.643	1.00	46.30	E	C
	ATOM	5785	C	PHE	E	184	-19.485	36.920	33.689	1.00	35.61	E	C
	ATOM	5786	O	PHE	E	184	-19.936	36.727	32.562	1.00	35.86	E	O
	ATOM	5787	N	THR	E	185	-20.064	36.425	34.776	1.00	35.24	E	N
	ATOM	5788	CA	THR	E	185	-21.275	35.637	34.618	1.00	35.33	E	C
20	ATOM	5789	CB	THR	E	185	-21.689	34.930	35.947	1.00	34.07	E	C
	ATOM	5790	OG1	THR	E	185	-23.007	35.339	36.329	1.00	33.36	E	O
	ATOM	5791	CG2	THR	E	185	-20.699	35.234	37.047	1.00	32.86	E	C
	ATOM	5792	C	THR	E	185	-22.389	36.542	34.084	1.00	36.12	E	C
	ATOM	5793	O	THR	E	185	-22.550	37.684	34.525	1.00	36.40	E	O
25	ATOM	5794	N	PRO	E	186	-23.150	36.048	33.094	1.00	36.44	E	N
	ATOM	5795	CD	PRO	E	186	-22.993	34.713	32.492	1.00	35.65	E	C
	ATOM	5796	CA	PRO	E	186	-24.252	36.790	32.471	1.00	36.68	E	C
	ATOM	5797	CB	PRO	E	186	-24.876	35.776	31.504	1.00	36.41	E	C
	ATOM	5798	CG	PRO	E	186	-24.347	34.448	31.929	1.00	36.42	E	C
30	ATOM	5799	C	PRO	E	186	-25.282	37.349	33.434	1.00	36.70	E	C
	ATOM	5800	O	PRO	E	186	-25.530	36.775	34.493	1.00	38.41	E	O
	ATOM	5801	N	ALA	E	187	-25.873	38.480	33.063	1.00	36.25	E	N
	ATOM	5802	CA	ALA	E	187	-26.906	39.093	33.883	1.00	37.28	E	C
	ATOM	5803	CB	ALA	E	187	-27.349	40.415	33.270	1.00	35.25	E	C
35	ATOM	5804	C	ALA	E	187	-28.069	38.106	33.903	1.00	38.90	E	C
	ATOM	5805	O	ALA	E	187	-28.267	37.364	32.941	1.00	38.90	E	O
	ATOM	5806	N	LEU	E	188	-28.827	38.066	34.992	1.00	40.41	E	N
	ATOM	5807	CA	LEU	E	188	-29.947	37.147	35.026	1.00	43.04	E	C
	ATOM	5808	CB	LEU	E	188	-30.199	36.621	36.448	1.00	42.93	E	C
40	ATOM	5809	CG	LEU	E	188	-29.977	37.486	37.684	1.00	42.59	E	C
	ATOM	5810	CD1	LEU	E	188	-31.271	37.552	38.493	1.00	43.17	E	C
	ATOM	5811	CD2	LEU	E	188	-28.857	36.886	38.521	1.00	40.69	E	C
	ATOM	5812	C	LEU	E	188	-31.184	37.846	34.483	1.00	43.69	E	C
	ATOM	5813	O	LEU	E	188	-31.378	39.038	34.706	1.00	43.14	E	O
45	ATOM	5814	N	LYS	E	189	-32.002	37.101	33.747	1.00	45.47	E	N
	ATOM	5815	CA	LYS	E	189	-33.221	37.644	33.170	1.00	47.67	E	C
	ATOM	5816	CB	LYS	E	189	-33.995	36.538	32.451	1.00	46.70	E	C
	ATOM	5817	CG	LYS	E	189	-33.125	35.656	31.577	1.00	46.86	E	C
	ATOM	5818	CD	LYS	E	189	-33.084	36.165	30.143	1.00	48.28	E	C
50	ATOM	5819	CE	LYS	E	189	-31.674	36.562	29.721	1.00	49.33	E	C
	ATOM	5820	NZ	LYS	E	189	-30.773	35.384	29.545	1.00	49.46	E	N
	ATOM	5821	C	LYS	E	189	-34.080	38.262	34.267	1.00	49.84	E	C
	ATOM	5822	O	LYS	E	189	-33.987	37.877	35.435	1.00	50.07	E	O
	ATOM	5823	N	LYS	E	190	-34.904	39.234	33.895	1.00	52.41	E	N
55	ATOM	5824	CA	LYS	E	190	-35.779	39.889	34.860	1.00	55.23	E	C
	ATOM	5825	CB	LYS	E	190	-36.726	40.858	34.145	1.00	58.03	E	C
	ATOM	5826	CG	LYS	E	190	-37.754	41.523	35.051	1.00	60.89	E	C
	ATOM	5827	CD	LYS	E	190	-39.180	41.209	34.602	1.00	64.03	E	C
	ATOM	5828	CE	LYS	E	190	-39.406	41.554	33.128	1.00	65.14	E	C
60	ATOM	5829	NZ	LYS	E	190	-39.956	40.399	32.355	1.00	65.07	E	N
	ATOM	5830	C	LYS	E	190	-36.578	38.817	35.591	1.00	55.17	E	C
	ATOM	5831	O	LYS	E	190	-37.234	37.980	34.967	1.00	56.41	E	O
	ATOM	5832	N	GLY	E	191	-36.515	38.835	36.915	1.00	54.97	E	N
	ATOM	5833	CA	GLY	E	191	-37.235	37.837	37.678	1.00	55.27	E	C
65	ATOM	5834	C	GLY	E	191	-36.760	36.442	37.312	1.00	54.97	E	C
	ATOM	5835	O	GLY	E	191	-37.428	35.709	36.565	1.00	56.34	E	O
	ATOM	5836	N	GLU	E	192	-35.587	36.085	37.824	1.00	51.59	E	N
	ATOM	5837	CA	GLU	E	192	-35.003	34.776	37.578	1.00	48.47	E	C
	ATOM	5838	CB	GLU	E	192	-33.977	34.841	36.442	1.00	46.68	E	C

5	ATOM	5839	CG	GLU	E	192	-33.426	33.483	36.035	1.00	44.96	E	C
	ATOM	5840	CD	GLU	E	192	-32.148	33.582	35.223	1.00	42.84	E	C
	ATOM	5841	OE1	GLU	E	192	-31.514	32.537	34.977	1.00	43.39	E	O
	ATOM	5842	OE2	GLU	E	192	-31.775	34.701	34.826	1.00	41.87	E	O
	ATOM	5843	C	GLU	E	192	-34.326	34.338	38.865	1.00	46.59	E	C
	ATOM	5844	O	GLU	E	192	-33.853	35.170	39.631	1.00	46.45	E	O
	ATOM	5845	N	ASP	E	193	-34.293	33.032	39.104	1.00	44.63	E	N
10	ATOM	5846	CA	ASP	E	193	-33.674	32.482	40.302	1.00	40.04	E	C
	ATOM	5847	CB	ASP	E	193	-34.000	30.989	40.413	1.00	41.79	E	C
	ATOM	5848	CG	ASP	E	193	-33.675	30.421	41.777	1.00	43.34	E	C
	ATOM	5849	OD1	ASP	E	193	-33.104	29.313	41.835	1.00	46.70	E	O
	ATOM	5850	OD2	ASP	E	193	-33.988	31.076	42.792	1.00	43.13	E	O
15	ATOM	5851	C	ASP	E	193	-32.161	32.686	40.268	1.00	37.21	E	C
	ATOM	5852	O	ASP	E	193	-31.464	32.135	39.415	1.00	36.66	E	O
	ATOM	5853	N	PRO	E	194	-31.630	33.485	41.203	1.00	34.25	E	N
	ATOM	5854	CD	PRO	E	194	-32.331	34.200	42.277	1.00	33.22	E	C
	ATOM	5855	CA	PRO	E	194	-30.188	33.733	41.239	1.00	32.51	E	C
20	ATOM	5856	CB	PRO	E	194	-30.041	34.942	42.167	1.00	31.98	E	C
	ATOM	5857	CG	PRO	E	194	-31.432	35.359	42.538	1.00	31.80	E	C
	ATOM	5858	C	PRO	E	194	-29.422	32.535	41.762	1.00	31.18	E	C
	ATOM	5859	O	PRO	E	194	-28.194	32.486	41.675	1.00	31.44	E	O
	ATOM	5860	N	PHE	E	195	-30.152	31.563	42.294	1.00	30.77	E	N
25	ATOM	5861	CA	PHE	E	195	-29.528	30.373	42.857	1.00	31.94	E	C
	ATOM	5862	CB	PHE	E	195	-29.890	30.280	44.336	1.00	30.48	E	C
	ATOM	5863	CG	PHE	E	195	-29.738	31.587	45.072	1.00	30.35	E	C
	ATOM	5864	CD1	PHE	E	195	-28.482	32.023	45.495	1.00	28.19	E	C
	ATOM	5865	CD2	PHE	E	195	-30.842	32.398	45.313	1.00	28.04	E	C
30	ATOM	5866	CE1	PHE	E	195	-28.336	33.245	46.144	1.00	24.75	E	C
	ATOM	5867	CE2	PHE	E	195	-30.700	33.621	45.961	1.00	26.74	E	C
	ATOM	5868	CZ	PHE	E	195	-29.445	34.042	46.376	1.00	24.20	E	C
	ATOM	5869	C	PHE	E	195	-29.863	29.064	42.150	1.00	33.75	E	C
	ATOM	5870	O	PHE	E	195	-29.834	28.001	42.768	1.00	32.88	E	O
35	ATOM	5871	N	ARG	E	196	-30.163	29.150	40.855	1.00	35.26	E	N
	ATOM	5872	CA	ARG	E	196	-30.500	27.979	40.049	1.00	36.83	E	C
	ATOM	5873	CB	ARG	E	196	-30.759	28.387	38.597	1.00	37.41	E	C
	ATOM	5874	CG	ARG	E	196	-31.916	29.340	38.420	1.00	38.95	E	C
	ATOM	5875	CD	ARG	E	196	-32.164	29.643	36.956	1.00	42.24	E	C
40	ATOM	5876	NE	ARG	E	196	-32.257	28.428	36.156	1.00	44.68	E	N
	ATOM	5877	CZ	ARG	E	196	-32.769	28.378	34.932	1.00	44.96	E	C
	ATOM	5878	NH1	ARG	E	196	-33.238	29.479	34.361	1.00	44.01	E	N
	ATOM	5879	NH2	ARG	E	196	-32.810	27.224	34.279	1.00	45.80	E	N
	ATOM	5880	C	ARG	E	196	-29.376	26.955	40.088	1.00	37.24	E	C
45	ATOM	5881	O	ARG	E	196	-28.200	27.308	40.065	1.00	36.09	E	O
	ATOM	5882	N	THR	E	197	-29.742	25.680	40.129	1.00	38.22	E	N
	ATOM	5883	CA	THR	E	197	-28.746	24.625	40.180	1.00	39.57	E	C
	ATOM	5884	CB	THR	E	197	-28.734	23.980	41.581	1.00	40.19	E	C
	ATOM	5885	OG1	THR	E	197	-27.491	23.299	41.785	1.00	41.95	E	O
50	ATOM	5886	CG2	THR	E	197	-29.894	23.005	41.737	1.00	40.40	E	C
	ATOM	5887	C	THR	E	197	-28.985	23.551	39.115	1.00	39.53	E	C
	ATOM	5888	O	THR	E	197	-28.422	22.458	39.185	1.00	39.35	E	O
	ATOM	5889	N	ASP	E	198	-29.808	23.876	38.122	1.00	39.92	E	N
	ATOM	5890	CA	ASP	E	198	-30.118	22.936	37.055	1.00	40.72	E	C
55	ATOM	5891	CB	ASP	E	198	-31.589	23.065	36.654	1.00	40.28	E	C
	ATOM	5892	CG	ASP	E	198	-31.958	24.465	36.196	1.00	41.08	E	C
	ATOM	5893	OD1	ASP	E	198	-31.953	25.389	37.035	1.00	42.03	E	O
	ATOM	5894	OD2	ASP	E	198	-32.265	24.643	34.997	1.00	40.98	E	O
	ATOM	5895	C	ASP	E	198	-29.239	23.092	35.818	1.00	40.89	E	C
60	ATOM	5896	O	ASP	E	198	-29.265	22.249	34.923	1.00	42.76	E	O
	ATOM	5897	N	ASN	E	199	-28.449	24.156	35.772	1.00	40.44	E	N
	ATOM	5898	CA	ASN	E	199	-27.588	24.403	34.623	1.00	40.54	E	C
	ATOM	5899	CB	ASN	E	199	-27.840	25.815	34.101	1.00	43.90	E	C
	ATOM	5900	CG	ASN	E	199	-28.057	26.818	35.227	1.00	49.09	E	C
65	ATOM	5901	OD1	ASN	E	199	-28.815	27.781	35.081	1.00	49.41	E	O
	ATOM	5902	ND2	ASN	E	199	-27.390	26.594	36.361	1.00	50.43	E	N
	ATOM	5903	C	ASN	E	199	-26.104	24.227	34.935	1.00	39.00	E	C
	ATOM	5904	O	ASN	E	199	-25.250	24.771	34.238	1.00	39.30	E	O
	ATOM	5905	N	LEU	E	200	-25.798	23.463	35.977	1.00	37.27	E	N
	ATOM	5906	CA	LEU	E	200	-24.414	23.228	36.368	1.00	35.44	E	C

	ATOM	5907	CB	LEU	E	200	-24.336	22.835	37.850	1.00	35.08	E	C
	ATOM	5908	CG	LEU	E	200	-24.554	23.898	38.928	1.00	34.90	E	C
	ATOM	5909	CD1	LEU	E	200	-24.395	23.247	40.287	1.00	34.35	E	C
5	ATOM	5910	CD2	LEU	E	200	-23.555	25.034	38.764	1.00	33.63	E	C
	ATOM	5911	C	LEU	E	200	-23.769	22.122	35.534	1.00	35.08	E	C
	ATOM	5912	O	LEU	E	200	-24.409	21.123	35.213	1.00	34.95	E	O
	ATOM	5913	N	PRO	E	201	-22.487	22.292	35.172	1.00	34.05	E	N
	ATOM	5914	CD	PRO	E	201	-21.659	23.469	35.479	1.00	32.67	E	C
10	ATOM	5915	CA	PRO	E	201	-21.752	21.303	34.379	1.00	34.81	E	C
	ATOM	5916	CB	PRO	E	201	-20.366	21.932	34.204	1.00	33.12	E	C
	ATOM	5917	CG	PRO	E	201	-20.562	23.372	34.476	1.00	33.08	E	C
	ATOM	5918	C	PRO	E	201	-21.668	19.937	35.069	1.00	36.26	E	C
	ATOM	5919	O	PRO	E	201	-22.121	19.772	36.203	1.00	36.84	E	O
	ATOM	5920	N	GLU	E	202	-21.079	18.967	34.381	1.00	37.44	E	N
15	ATOM	5921	CA	GLU	E	202	-20.928	17.624	34.924	1.00	40.87	E	C
	ATOM	5922	CB	GLU	E	202	-21.019	16.583	33.803	1.00	46.33	E	C
	ATOM	5923	CG	GLU	E	202	-21.875	17.009	32.608	1.00	53.67	E	C
	ATOM	5924	CD	GLU	E	202	-21.865	15.983	31.474	1.00	58.19	E	C
20	ATOM	5925	OE1	GLU	E	202	-20.766	15.479	31.128	1.00	60.08	E	O
	ATOM	5926	OE2	GLU	E	202	-22.957	15.686	30.930	1.00	59.68	E	O
	ATOM	5927	C	GLU	E	202	-19.583	17.492	35.625	1.00	39.76	E	C
	ATOM	5928	O	GLU	E	202	-18.667	18.273	35.376	1.00	39.82	E	O
	ATOM	5929	N	ASN	E	203	-19.464	16.503	36.501	1.00	38.43	E	N
25	ATOM	5930	CA	ASN	E	203	-18.216	16.293	37.222	1.00	38.57	E	C
	ATOM	5931	CB	ASN	E	203	-18.442	15.355	38.411	1.00	39.01	E	C
	ATOM	5932	CG	ASN	E	203	-19.405	15.933	39.440	1.00	40.29	E	C
	ATOM	5933	OD1	ASN	E	203	-19.799	15.249	40.388	1.00	40.13	E	O
	ATOM	5934	ND2	ASN	E	203	-19.789	17.196	39.257	1.00	40.78	E	N
30	ATOM	5935	C	ASN	E	203	-17.163	15.708	36.288	1.00	37.24	E	C
	ATOM	5936	O	ASN	E	203	-17.484	14.923	35.401	1.00	38.09	E	O
	ATOM	5937	N	LEU	E	204	-15.907	16.095	36.489	1.00	36.45	E	N
	ATOM	5938	CA	LEU	E	204	-14.815	15.614	35.652	1.00	36.75	E	C
	ATOM	5939	CB	LEU	E	204	-14.043	16.793	35.058	1.00	37.41	E	C
35	ATOM	5940	CG	LEU	E	204	-14.832	17.773	34.189	1.00	37.73	E	C
	ATOM	5941	CD1	LEU	E	204	-13.941	18.952	33.834	1.00	37.16	E	C
	ATOM	5942	CD2	LEU	E	204	-15.328	17.073	32.937	1.00	36.35	E	C
	ATOM	5943	C	LEU	E	204	-13.849	14.719	36.412	1.00	36.59	E	C
	ATOM	5944	O	LEU	E	204	-12.888	14.207	35.842	1.00	37.92	E	O
40	ATOM	5945	N	GLY	E	205	-14.098	14.549	37.703	1.00	36.20	E	N
	ATOM	5946	CA	GLY	E	205	-13.253	13.703	38.522	1.00	36.18	E	C
	ATOM	5947	C	GLY	E	205	-11.748	13.774	38.321	1.00	36.55	E	C
	ATOM	5948	O	GLY	E	205	-11.068	12.751	38.446	1.00	37.37	E	O
	ATOM	5949	N	TYR	E	206	-11.208	14.949	38.009	1.00	36.91	E	N
45	ATOM	5950	CA	TYR	E	206	-9.759	15.070	37.841	1.00	37.07	E	C
	ATOM	5951	CB	TYR	E	206	-9.387	16.403	37.194	1.00	38.84	E	C
	ATOM	5952	CG	TYR	E	206	-9.800	16.543	35.749	1.00	41.81	E	C
	ATOM	5953	CD1	TYR	E	206	-9.782	15.448	34.883	1.00	43.07	E	C
	ATOM	5954	CE1	TYR	E	206	-10.152	15.582	33.547	1.00	43.48	E	C
50	ATOM	5955	CD2	TYR	E	206	-10.199	17.779	35.241	1.00	41.75	E	C
	ATOM	5956	CE2	TYR	E	206	-10.571	17.927	33.910	1.00	43.04	E	C
	ATOM	5957	CZ	TYR	E	206	-10.546	16.826	33.067	1.00	44.23	E	C
	ATOM	5958	OH	TYR	E	206	-10.924	16.971	31.749	1.00	44.96	E	O
	ATOM	5959	C	TYR	E	206	-9.120	15.012	39.224	1.00	36.95	E	C
55	ATOM	5960	O	TYR	E	206	-9.813	15.105	40.239	1.00	37.17	E	O
	ATOM	5961	N	HIS	E	207	-7.803	14.863	39.270	1.00	36.75	E	N
	ATOM	5962	CA	HIS	E	207	-7.113	14.815	40.549	1.00	37.33	E	C
	ATOM	5963	CB	HIS	E	207	-6.105	13.664	40.576	1.00	38.71	E	C
	ATOM	5964	CG	HIS	E	207	-5.532	13.403	41.934	1.00	42.76	E	C
60	ATOM	5965	CD2	HIS	E	207	-6.115	12.973	43.081	1.00	44.19	E	C
	ATOM	5966	ND1	HIS	E	207	-4.204	13.620	42.237	1.00	44.94	E	N
	ATOM	5967	CE1	HIS	E	207	-3.993	13.336	43.512	1.00	45.59	E	C
	ATOM	5968	NE2	HIS	E	207	-5.136	12.942	44.046	1.00	45.70	E	N
	ATOM	5969	C	HIS	E	207	-6.399	16.138	40.812	1.00	37.58	E	C
65	ATOM	5970	O	HIS	E	207	-5.541	16.556	40.033	1.00	38.53	E	O
	ATOM	5971	N	LEU	E	208	-6.761	16.796	41.910	1.00	35.67	E	N
	ATOM	5972	CA	LEU	E	208	-6.160	18.071	42.274	1.00	33.28	E	C
	ATOM	5973	CB	LEU	E	208	-7.219	18.993	42.877	1.00	31.42	E	C
	ATOM	5974	CG	LEU	E	208	-8.384	19.298	41.934	1.00	30.07	E	C

	ATOM	5975	CD1	LEU	E	208	-9.496	19.991	42.688	1.00	29.12	E	C
	ATOM	5976	CD2	LEU	E	208	-7.895	20.160	40.777	1.00	31.95	E	C
	ATOM	5977	C	LEU	E	208	-5.021	17.862	43.260	1.00	34.04	E	C
5	ATOM	5978	O	LEU	E	208	-5.135	17.084	44.203	1.00	34.85	E	O
	ATOM	5979	N	LYS	E	209	-3.918	18.562	43.038	1.00	35.10	E	N
	ATOM	5980	CA	LYS	E	209	-2.759	18.437	43.906	1.00	35.83	E	C
	ATOM	5981	CB	LYS	E	209	-1.843	17.327	43.390	1.00	37.30	E	C
	ATOM	5982	CG	LYS	E	209	-1.040	16.627	44.471	1.00	38.95	E	C
10	ATOM	5983	CD	LYS	E	209	0.191	15.950	43.891	1.00	40.79	E	C
	ATOM	5984	CE	LYS	E	209	1.172	15.564	44.996	1.00	43.58	E	C
	ATOM	5985	NZ	LYS	E	209	2.259	14.667	44.508	1.00	44.03	E	N
	ATOM	5986	C	LYS	E	209	-1.983	19.747	43.983	1.00	35.54	E	C
	ATOM	5987	O	LYS	E	209	-1.771	20.419	42.973	1.00	34.81	E	O
15	ATOM	5988	N	MET	E	210	-1.563	20.102	45.192	1.00	34.66	E	N
	ATOM	5989	CA	MET	E	210	-0.806	21.321	45.416	1.00	33.72	E	C
	ATOM	5990	CB	MET	E	210	-0.834	21.682	46.907	1.00	33.86	E	C
	ATOM	5991	CG	MET	E	210	-0.479	23.134	47.215	1.00	35.25	E	C
	ATOM	5992	SD	MET	E	210	-1.884	24.283	47.141	1.00	36.61	E	S
20	ATOM	5993	CE	MET	E	210	-3.250	23.150	47.070	1.00	33.18	E	C
	ATOM	5994	C	MET	E	210	0.630	21.093	44.962	1.00	33.46	E	C
	ATOM	5995	O	MET	E	210	1.206	20.038	45.223	1.00	34.28	E	O
	ATOM	5996	N	LYS	E	211	1.205	22.073	44.275	1.00	33.21	E	N
	ATOM	5997	CA	LYS	E	211	2.583	21.956	43.815	1.00	33.16	E	C
25	ATOM	5998	CB	LYS	E	211	2.627	21.510	42.358	1.00	34.76	E	C
	ATOM	5999	CG	LYS	E	211	3.952	20.888	41.970	1.00	35.15	E	C
	ATOM	6000	CD	LYS	E	211	4.477	21.498	40.687	1.00	39.43	E	C
	ATOM	6001	CE	LYS	E	211	4.705	20.431	39.633	1.00	39.69	E	C
	ATOM	6002	NZ	LYS	E	211	5.901	19.614	39.970	1.00	42.85	E	N
30	ATOM	6003	C	LYS	E	211	3.333	23.269	43.970	1.00	33.30	E	C
	ATOM	6004	O	LYS	E	211	3.112	24.219	43.217	1.00	34.15	E	O
	ATOM	6005	N	ASP	E	212	4.221	23.310	44.958	1.00	32.73	E	N
	ATOM	6006	CA	ASP	E	212	5.010	24.499	45.244	1.00	32.43	E	C
	ATOM	6007	CB	ASP	E	212	6.041	24.733	44.137	1.00	34.22	E	C
35	ATOM	6008	CG	ASP	E	212	7.163	23.706	44.158	1.00	37.27	E	C
	ATOM	6009	OD1	ASP	E	212	7.556	23.255	45.258	1.00	38.11	E	O
	ATOM	6010	OD2	ASP	E	212	7.654	23.347	43.068	1.00	40.29	E	O
	ATOM	6011	C	ASP	E	212	4.131	25.738	45.412	1.00	30.59	E	C
	ATOM	6012	O	ASP	E	212	4.489	26.830	44.977	1.00	30.41	E	O
40	ATOM	6013	N	GLY	E	213	2.976	25.558	46.043	1.00	29.78	E	N
	ATOM	6014	CA	GLY	E	213	2.083	26.677	46.281	1.00	28.12	E	C
	ATOM	6015	C	GLY	E	213	0.973	26.876	45.269	1.00	28.12	E	C
	ATOM	6016	O	GLY	E	213	0.144	27.772	45.434	1.00	28.23	E	O
	ATOM	6017	N	VAL	E	214	0.937	26.052	44.227	1.00	27.70	E	N
45	ATOM	6018	CA	VAL	E	214	-0.101	26.197	43.211	1.00	27.19	E	C
	ATOM	6019	CB	VAL	E	214	0.505	26.629	41.847	1.00	27.92	E	C
	ATOM	6020	CG1	VAL	E	214	-0.607	26.929	40.844	1.00	26.64	E	C
	ATOM	6021	CG2	VAL	E	214	1.384	27.857	42.036	1.00	26.82	E	C
	ATOM	6022	C	VAL	E	214	-0.881	24.912	43.010	1.00	26.37	E	C
50	ATOM	6023	O	VAL	E	214	-0.307	23.827	42.993	1.00	28.68	E	O
	ATOM	6024	N	VAL	E	215	-2.195	25.035	42.867	1.00	26.02	E	N
	ATOM	6025	CA	VAL	E	215	-3.035	23.867	42.646	1.00	26.15	E	C
	ATOM	6026	CB	VAL	E	215	-4.542	24.191	42.832	1.00	25.99	E	C
	ATOM	6027	CG1	VAL	E	215	-5.384	22.933	42.590	1.00	22.29	E	C
55	ATOM	6028	CG2	VAL	E	215	-4.792	24.745	44.235	1.00	23.78	E	C
	ATOM	6029	C	VAL	E	215	-2.817	23.396	41.212	1.00	28.77	E	C
	ATOM	6030	O	VAL	E	215	-3.038	24.152	40.262	1.00	28.51	E	O
	ATOM	6031	N	TYR	E	216	-2.369	22.155	41.061	1.00	30.02	E	N
	ATOM	6032	CA	TYR	E	216	-2.136	21.581	39.740	1.00	31.22	E	C
60	ATOM	6033	CB	TYR	E	216	-0.765	20.918	39.682	1.00	30.99	E	C
	ATOM	6034	CG	TYR	E	216	0.321	21.862	39.251	1.00	31.97	E	C
	ATOM	6035	CD1	TYR	E	216	1.085	21.608	38.113	1.00	31.11	E	C
	ATOM	6036	CE1	TYR	E	216	2.086	22.485	37.712	1.00	32.85	E	C
	ATOM	6037	CD2	TYR	E	216	0.584	23.020	39.978	1.00	33.39	E	C
	ATOM	6038	CE2	TYR	E	216	1.584	23.905	39.586	1.00	33.66	E	C
65	ATOM	6039	CZ	TYR	E	216	2.330	23.630	38.453	1.00	33.35	E	C
	ATOM	6040	OH	TYR	E	216	3.327	24.500	38.074	1.00	36.44	E	O
	ATOM	6041	C	TYR	E	216	-3.207	20.552	39.438	1.00	32.45	E	C
	ATOM	6042	O	TYR	E	216	-3.600	19.778	40.311	1.00	31.97	E	O

	ATOM	6043	N	ILE	E	217	-3.688	20.549	38.202	1.00	34.49	E	N
	ATOM	6044	CA	ILE	E	217	-4.725	19.600	37.811	1.00	37.57	E	C
	ATOM	6045	CB	ILE	E	217	-5.813	20.268	36.948	1.00	36.47	E	C
5	ATOM	6046	CG2	ILE	E	217	-6.867	19.242	36.567	1.00	35.59	E	C
	ATOM	6047	CG1	ILE	E	217	-6.447	21.434	37.713	1.00	36.29	E	C
	ATOM	6048	CD1	ILE	E	217	-6.207	22.789	37.068	1.00	36.52	E	C
	ATOM	6049	C	ILE	E	217	-4.124	18.446	37.024	1.00	38.89	E	C
	ATOM	6050	O	ILE	E	217	-3.423	18.654	36.031	1.00	38.98	E	O
10	ATOM	6051	N	TYR	E	218	-4.391	17.230	37.487	1.00	40.17	E	N
	ATOM	6052	CA	TYR	E	218	-3.890	16.035	36.830	1.00	41.90	E	C
	ATOM	6053	CB	TYR	E	218	-3.091	15.179	37.810	1.00	38.57	E	C
	ATOM	6054	CG	TYR	E	218	-1.847	15.879	38.276	1.00	37.25	E	C
	ATOM	6055	CD1	TYR	E	218	-0.637	15.701	37.612	1.00	37.10	E	C
15	ATOM	6056	CE1	TYR	E	218	0.504	16.402	37.993	1.00	36.61	E	C
	ATOM	6057	CD2	TYR	E	218	-1.887	16.775	39.343	1.00	37.25	E	C
	ATOM	6058	CE2	TYR	E	218	-0.756	17.481	39.733	1.00	37.37	E	C
	ATOM	6059	CZ	TYR	E	218	0.437	17.291	39.051	1.00	37.65	E	C
	ATOM	6060	OH	TYR	E	218	1.560	17.998	39.419	1.00	39.83	E	O
20	ATOM	6061	C	TYR	E	218	-5.090	15.278	36.317	1.00	45.46	E	C
	ATOM	6062	O	TYR	E	218	-6.074	15.077	37.037	1.00	45.58	E	O
	ATOM	6063	N	ALA	E	219	-5.014	14.884	35.052	1.00	49.85	E	N
	ATOM	6064	CA	ALA	E	219	-6.095	14.156	34.418	1.00	53.89	E	C
	ATOM	6065	CB	ALA	E	219	-5.653	13.640	33.053	1.00	54.99	E	C
25	ATOM	6066	C	ALA	E	219	-6.500	13.000	35.307	1.00	57.12	E	C
	ATOM	6067	O	ALA	E	219	-5.645	12.340	35.896	1.00	56.83	E	O
	ATOM	6068	N	ASN	E	220	-7.810	12.792	35.403	1.00	60.36	E	N
	ATOM	6069	CA	ASN	E	220	-8.424	11.724	36.188	1.00	63.59	E	C
	ATOM	6070	CB	ASN	E	220	-9.672	11.225	35.446	1.00	65.26	E	C
	ATOM	6071	CG	ASN	E	220	-9.915	11.980	34.136	1.00	66.08	E	C
30	ATOM	6072	OD1	ASN	E	220	-10.953	12.621	33.956	1.00	66.66	E	O
	ATOM	6073	ND2	ASN	E	220	-8.952	11.906	33.221	1.00	66.75	E	N
	ATOM	6074	C	ASN	E	220	-7.450	10.567	36.432	1.00	65.38	E	C
	ATOM	6075	O	ASN	E	220	-7.640	9.451	35.939	1.00	66.02	E	O
35	ATOM	6076	N	GLU	E	221	-6.414	10.843	37.214	1.00	65.35	E	N
	ATOM	6077	CA	GLU	E	221	-5.396	9.851	37.497	1.00	65.75	E	C
	ATOM	6078	CB	GLU	E	221	-4.443	9.724	36.309	1.00	67.25	E	C
	ATOM	6079	CG	GLU	E	221	-4.590	8.454	35.506	1.00	70.93	E	C
	ATOM	6080	CD	GLU	E	221	-3.711	8.455	34.265	1.00	73.98	E	C
40	ATOM	6081	OE1	GLU	E	221	-2.486	8.670	34.404	1.00	75.28	E	O
	ATOM	6082	OE2	GLU	E	221	-4.244	8.242	33.152	1.00	75.32	E	O
	ATOM	6083	C	GLU	E	221	-4.593	10.266	38.706	1.00	64.83	E	C
	ATOM	6084	O	GLU	E	221	-3.880	11.271	38.669	1.00	63.95	E	O
	ATOM	6085	N	ALA	E	222	-4.707	9.493	39.780	1.00	64.51	E	N
45	ATOM	6086	CA	ALA	E	222	-3.936	9.772	40.977	1.00	64.47	E	C
	ATOM	6087	CB	ALA	E	222	-4.299	8.786	42.088	1.00	63.64	E	C
	ATOM	6088	C	ALA	E	222	-2.486	9.582	40.522	1.00	64.24	E	C
	ATOM	6089	O	ALA	E	222	-1.545	9.690	41.310	1.00	63.91	E	O
	ATOM	6090	N	ALA	E	223	-2.336	9.295	39.228	1.00	64.41	E	N
50	ATOM	6091	CA	ALA	E	223	-1.042	9.103	38.587	1.00	65.18	E	C
	ATOM	6092	CB	ALA	E	223	-1.236	8.533	37.193	1.00	64.36	E	C
	ATOM	6093	C	ALA	E	223	-0.325	10.451	38.510	1.00	66.53	E	C
	ATOM	6094	O	ALA	E	223	0.386	10.747	37.546	1.00	66.35	E	O
	ATOM	6095	N	ALA	E	224	-0.548	11.273	39.529	1.00	67.47	E	N
55	ATOM	6096	CA	ALA	E	224	0.082	12.575	39.627	1.00	66.62	E	C
	ATOM	6097	CB	ALA	E	224	-0.661	13.439	40.628	1.00	66.55	E	C
	ATOM	6098	C	ALA	E	224	1.497	12.301	40.113	1.00	67.66	E	C
	ATOM	6099	O	ALA	E	224	2.317	13.217	40.220	1.00	67.77	E	O
	ATOM	6100	N	GLY	E	225	1.760	11.026	40.416	1.00	68.65	E	N
60	ATOM	6101	CA	GLY	E	225	3.073	10.601	40.879	1.00	68.33	E	C
	ATOM	6102	C	GLY	E	225	4.091	11.043	39.851	1.00	68.53	E	C
	ATOM	6103	O	GLY	E	225	5.193	11.492	40.181	1.00	68.63	E	O
	ATOM	6104	N	LYS	E	226	3.714	10.894	38.587	1.00	67.94	E	N
	ATOM	6105	CA	LYS	E	226	4.558	11.333	37.492	1.00	67.08	E	C
	ATOM	6106	CB	LYS	E	226	4.407	10.410	36.285	1.00	67.93	E	C
65	ATOM	6107	CG	LYS	E	226	5.678	10.277	35.462	1.00	69.37	E	C
	ATOM	6108	CD	LYS	E	226	6.675	9.338	36.131	1.00	70.00	E	C
	ATOM	6109	CE	LYS	E	226	7.538	8.620	35.103	1.00	70.88	E	C
	ATOM	6110	NZ	LYS	E	226	6.975	7.291	34.724	1.00	71.97	E	N

5	ATOM	6111	C	LYS	E	226	4.003	12.717	37.172	1.00	66.09	E	C
	ATOM	6112	O	LYS	E	226	2.892	12.842	36.653	1.00	65.87	E	O
	ATOM	6113	N	ASP	E	227	4.759	13.750	37.525	1.00	64.13	E	N
	ATOM	6114	CA	ASP	E	227	4.331	15.119	37.284	1.00	61.83	E	C
	ATOM	6115	CB	ASP	E	227	5.467	16.088	37.603	1.00	63.09	E	C
	ATOM	6116	CG	ASP	E	227	5.232	16.849	38.890	1.00	65.24	E	C
	ATOM	6117	OD1	ASP	E	227	5.989	16.621	39.862	1.00	65.39	E	O
10	ATOM	6118	OD2	ASP	E	227	4.286	17.671	38.926	1.00	65.88	E	O
	ATOM	6119	C	ASP	E	227	3.890	15.296	35.839	1.00	59.24	E	C
	ATOM	6120	O	ASP	E	227	4.669	15.720	34.987	1.00	58.43	E	O
	ATOM	6121	N	GLU	E	228	2.633	14.962	35.573	1.00	56.36	E	N
	ATOM	6122	CA	GLU	E	228	2.075	15.075	34.236	1.00	53.71	E	C
15	ATOM	6123	CB	GLU	E	228	2.003	13.695	33.582	1.00	55.13	E	C
	ATOM	6124	CG	GLU	E	228	3.328	13.236	32.987	1.00	57.34	E	C
	ATOM	6125	CD	GLU	E	228	3.456	11.722	32.905	1.00	59.33	E	C
	ATOM	6126	OE1	GLU	E	228	2.415	11.031	32.824	1.00	60.00	E	O
	ATOM	6127	OE2	GLU	E	228	4.605	11.225	32.920	1.00	60.72	E	O
20	ATOM	6128	C	GLU	E	228	0.685	15.686	34.332	1.00	51.74	E	C
	ATOM	6129	O	GLU	E	228	-0.318	15.028	34.052	1.00	51.51	E	O
	ATOM	6130	N	PRO	E	229	0.611	16.967	34.730	1.00	49.11	E	N
	ATOM	6131	CD	PRO	E	229	1.755	17.836	35.057	1.00	48.20	E	C
	ATOM	6132	CA	PRO	E	229	-0.664	17.674	34.870	1.00	47.34	E	C
25	ATOM	6133	CB	PRO	E	229	-0.258	19.045	35.409	1.00	47.70	E	C
	ATOM	6134	CG	PRO	E	229	1.165	19.211	34.978	1.00	46.26	E	C
	ATOM	6135	C	PRO	E	229	-1.402	17.788	33.551	1.00	46.29	E	C
	ATOM	6136	O	PRO	E	229	-0.817	17.607	32.488	1.00	45.47	E	O
	ATOM	6137	N	LYS	E	230	-2.695	18.079	33.627	1.00	46.50	E	N
30	ATOM	6138	CA	LYS	E	230	-3.501	18.240	32.429	1.00	46.52	E	C
	ATOM	6139	CB	LYS	E	230	-4.944	18.596	32.796	1.00	47.37	E	C
	ATOM	6140	CG	LYS	E	230	-5.910	17.421	32.782	1.00	50.37	E	C
	ATOM	6141	CD	LYS	E	230	-6.191	16.956	31.361	1.00	52.18	E	C
	ATOM	6142	CE	LYS	E	230	-7.651	16.568	31.186	1.00	52.81	E	C
35	ATOM	6143	NZ	LYS	E	230	-7.863	15.115	31.442	1.00	53.37	E	N
	ATOM	6144	C	LYS	E	230	-2.877	19.395	31.667	1.00	47.41	E	C
	ATOM	6145	O	LYS	E	230	-2.528	20.416	32.264	1.00	46.87	E	O
	ATOM	6146	N	PRO	E	231	-2.709	19.246	30.341	1.00	48.45	E	N
	ATOM	6147	CD	PRO	E	231	-3.049	18.076	29.507	1.00	48.83	E	C
40	ATOM	6148	CA	PRO	E	231	-2.113	20.325	29.548	1.00	48.01	E	C
	ATOM	6149	CB	PRO	E	231	-2.408	19.914	28.111	1.00	47.49	E	C
	ATOM	6150	CG	PRO	E	231	-2.438	18.416	28.168	1.00	48.80	E	C
	ATOM	6151	C	PRO	E	231	-2.725	21.672	29.905	1.00	47.90	E	C
	ATOM	6152	O	PRO	E	231	-3.940	21.858	29.826	1.00	47.52	E	O
45	ATOM	6153	N	LEU	E	232	-1.867	22.602	30.312	1.00	48.81	E	N
	ATOM	6154	CA	LEU	E	232	-2.296	23.943	30.700	1.00	48.13	E	C
	ATOM	6155	CB	LEU	E	232	-3.103	23.883	31.998	1.00	47.27	E	C
	ATOM	6156	CG	LEU	E	232	-4.069	25.032	32.282	1.00	46.76	E	C
	ATOM	6157	CD1	LEU	E	232	-5.313	24.489	32.991	1.00	45.48	E	C
50	ATOM	6158	CD2	LEU	E	232	-3.368	26.082	33.134	1.00	47.27	E	C
	ATOM	6159	C	LEU	E	232	-1.073	24.830	30.904	1.00	48.16	E	C
	ATOM	6160	O	LEU	E	232	0.043	24.332	31.109	1.00	48.86	E	O
	ATOM	6161	N	LEU	E	233	-1.280	26.141	30.834	1.00	46.41	E	N
	ATOM	6162	CA	LEU	E	233	-0.188	27.085	31.031	1.00	45.49	E	C
55	ATOM	6163	CB	LEU	E	233	-0.367	28.311	30.123	1.00	48.13	E	C
	ATOM	6164	CG	LEU	E	233	-1.610	29.180	30.363	1.00	49.17	E	C
	ATOM	6165	CD1	LEU	E	233	-1.429	30.538	29.693	1.00	49.58	E	C
	ATOM	6166	CD2	LEU	E	233	-2.845	28.468	29.830	1.00	49.92	E	C
	ATOM	6167	C	LEU	E	233	-0.190	27.499	32.505	1.00	42.71	E	C
60	ATOM	6168	O	LEU	E	233	-1.071	28.238	32.962	1.00	40.55	E	O
	ATOM	6169	N	TYR	E	234	0.790	26.989	33.246	1.00	40.17	E	N
	ATOM	6170	CA	TYR	E	234	0.918	27.283	34.669	1.00	36.43	E	C
	ATOM	6171	CB	TYR	E	234	1.396	26.031	35.424	1.00	34.93	E	C
	ATOM	6172	CG	TYR	E	234	0.388	24.895	35.430	1.00	33.61	E	C
65	ATOM	6173	CD1	TYR	E	234	0.356	23.963	34.394	1.00	33.12	E	C
	ATOM	6174	CE1	TYR	E	234	-0.583	22.932	34.379	1.00	33.29	E	C
	ATOM	6175	CD2	TYR	E	234	-0.548	24.765	36.460	1.00	31.47	E	C
	ATOM	6176	CE2	TYR	E	234	-1.491	23.739	36.455	1.00	31.52	E	C
	ATOM	6177	CZ	TYR	E	234	-1.503	22.825	35.409	1.00	33.40	E	C
	ATOM	6178	OH	TYR	E	234	-2.431	21.803	35.377	1.00	33.29	E	O

	ATOM	6179	C	TYR	E	234	1.910	28.428	34.855	1.00	34.85	E	C
	ATOM	6180	O	TYR	E	234	2.691	28.740	33.951	1.00	34.19	E	O
	ATOM	6181	N	PRO	E	235	1.893	29.072	36.033	1.00	32.90	E	N
	ATOM	6182	CD	PRO	E	235	1.023	28.783	37.183	1.00	31.51	E	C
5	ATOM	6183	CA	PRO	E	235	2.806	30.189	36.304	1.00	31.30	E	C
	ATOM	6184	CB	PRO	E	235	2.424	30.642	37.715	1.00	31.43	E	C
	ATOM	6185	CG	PRO	E	235	1.074	30.054	37.962	1.00	32.26	E	C
	ATOM	6186	C	PRO	E	235	4.269	29.780	36.224	1.00	29.94	E	C
	ATOM	6187	O	PRO	E	235	4.619	28.641	36.514	1.00	31.56	E	O
10	ATOM	6188	N	ASN	E	236	5.120	30.719	35.834	1.00	29.28	E	N
	ATOM	6189	CA	ASN	E	236	6.551	30.469	35.723	1.00	29.67	E	C
	ATOM	6190	CB	ASN	E	236	7.006	30.694	34.283	1.00	29.78	E	C
	ATOM	6191	CG	ASN	E	236	8.445	30.302	34.061	1.00	32.24	E	C
	ATOM	6192	OD1	ASN	E	236	9.315	30.591	34.882	1.00	33.06	E	O
15	ATOM	6193	ND2	ASN	E	236	8.707	29.638	32.943	1.00	35.23	E	N
	ATOM	6194	C	ASN	E	236	7.271	31.440	36.654	1.00	29.64	E	C
	ATOM	6195	O	ASN	E	236	7.530	32.589	36.283	1.00	29.18	E	O
	ATOM	6196	N	MET	E	237	7.605	30.972	37.854	1.00	29.10	E	N
	ATOM	6197	CA	MET	E	237	8.255	31.827	38.838	1.00	29.85	E	C
20	ATOM	6198	CB	MET	E	237	8.437	31.092	40.161	1.00	32.34	E	C
	ATOM	6199	CG	MET	E	237	8.757	32.049	41.298	1.00	35.35	E	C
	ATOM	6200	SD	MET	E	237	8.705	31.267	42.886	1.00	40.35	E	S
	ATOM	6201	CE	MET	E	237	10.478	31.066	43.211	1.00	40.58	E	C
	ATOM	6202	C	MET	E	237	9.582	32.443	38.438	1.00	29.37	E	C
25	ATOM	6203	O	MET	E	237	9.853	33.591	38.787	1.00	29.94	E	O
	ATOM	6204	N	GLU	E	238	10.419	31.696	37.729	1.00	28.84	E	N
	ATOM	6205	CA	GLU	E	238	11.707	32.235	37.321	1.00	28.80	E	C
	ATOM	6206	CB	GLU	E	238	12.532	31.172	36.599	1.00	32.05	E	C
	ATOM	6207	CG	GLU	E	238	14.026	31.418	36.687	1.00	40.47	E	C
30	ATOM	6208	CD	GLU	E	238	14.838	30.486	35.801	1.00	45.86	E	C
	ATOM	6209	OE1	GLU	E	238	15.796	30.965	35.149	1.00	47.80	E	O
	ATOM	6210	OE2	GLU	E	238	14.521	29.275	35.759	1.00	48.59	E	O
	ATOM	6211	C	GLU	E	238	11.495	33.437	36.411	1.00	28.02	E	C
	ATOM	6212	O	GLU	E	238	12.198	34.444	36.505	1.00	30.35	E	O
35	ATOM	6213	N	GLU	E	239	10.513	33.322	35.531	1.00	25.99	E	N
	ATOM	6214	CA	GLU	E	239	10.185	34.390	34.608	1.00	24.28	E	C
	ATOM	6215	CB	GLU	E	239	9.158	33.880	33.597	1.00	26.38	E	C
	ATOM	6216	CG	GLU	E	239	8.719	34.885	32.546	1.00	27.87	E	C
	ATOM	6217	CD	GLU	E	239	7.654	34.314	31.629	1.00	29.74	E	C
40	ATOM	6218	OE1	GLU	E	239	6.960	35.098	30.946	1.00	32.51	E	O
	ATOM	6219	OE2	GLU	E	239	7.512	33.075	31.593	1.00	31.54	E	O
	ATOM	6220	C	GLU	E	239	9.619	35.571	35.392	1.00	23.94	E	C
	ATOM	6221	O	GLU	E	239	9.976	36.721	35.147	1.00	24.30	E	O
	ATOM	6222	N	PHE	E	240	8.736	35.279	36.343	1.00	22.77	E	N
45	ATOM	6223	CA	PHE	E	240	8.127	36.319	37.161	1.00	21.73	E	C
	ATOM	6224	CB	PHE	E	240	7.161	35.710	38.179	1.00	20.60	E	C
	ATOM	6225	CG	PHE	E	240	6.459	36.734	39.026	1.00	22.31	E	C
	ATOM	6226	CD1	PHE	E	240	7.117	37.350	40.083	1.00	21.00	E	C
	ATOM	6227	CD2	PHE	E	240	5.142	37.095	38.755	1.00	22.54	E	C
50	ATOM	6228	CE1	PHE	E	240	6.476	38.313	40.861	1.00	21.85	E	C
	ATOM	6229	CE2	PHE	E	240	4.492	38.057	39.525	1.00	23.98	E	C
	ATOM	6230	CZ	PHE	E	240	5.165	38.668	40.583	1.00	22.31	E	C
	ATOM	6231	C	PHE	E	240	9.189	37.115	37.899	1.00	21.59	E	C
	ATOM	6232	O	PHE	E	240	9.153	38.340	37.918	1.00	20.64	E	O
55	ATOM	6233	N	LEU	E	241	10.132	36.406	38.508	1.00	22.64	E	N
	ATOM	6234	CA	LEU	E	241	11.202	37.044	39.257	1.00	23.35	E	C
	ATOM	6235	CB	LEU	E	241	12.009	35.988	40.017	1.00	23.89	E	C
	ATOM	6236	CG	LEU	E	241	11.249	35.312	41.170	1.00	27.03	E	C
	ATOM	6237	CD1	LEU	E	241	12.039	34.120	41.705	1.00	26.50	E	C
60	ATOM	6238	CD2	LEU	E	241	10.999	36.332	42.279	1.00	27.48	E	C
	ATOM	6239	C	LEU	E	241	12.120	37.864	38.355	1.00	25.04	E	C
	ATOM	6240	O	LEU	E	241	12.676	38.877	38.784	1.00	25.25	E	O
	ATOM	6241	N	ASP	E	242	12.276	37.441	37.105	1.00	25.94	E	N
	ATOM	6242	CA	ASP	E	242	13.130	38.177	36.177	1.00	26.57	E	C
65	ATOM	6243	CB	ASP	E	242	13.362	37.369	34.893	1.00	31.82	E	C
	ATOM	6244	CG	ASP	E	242	14.341	36.221	35.090	1.00	36.95	E	C
	ATOM	6245	OD1	ASP	E	242	15.089	36.230	36.097	1.00	40.63	E	O
	ATOM	6246	OD2	ASP	E	242	14.362	35.308	34.234	1.00	39.35	E	O

	ATOM	6247	C	ASP	E	242	12.480	39.506	35.827	1.00	24.55	E	C
	ATOM	6248	O	ASP	E	242	13.135	40.544	35.809	1.00	22.94	E	O
	ATOM	6249	N	ASP	E	243	11.182	39.461	35.552	1.00	24.54	E	N
	ATOM	6250	CA	ASP	E	243	10.427	40.654	35.188	1.00	23.47	E	C
5	ATOM	6251	CB	ASP	E	243	9.025	40.260	34.707	1.00	23.22	E	C
	ATOM	6252	CG	ASP	E	243	9.046	39.576	33.348	1.00	22.40	E	C
	ATOM	6253	OD1	ASP	E	243	10.034	39.772	32.613	1.00	20.67	E	O
	ATOM	6254	OD2	ASP	E	243	8.087	38.846	33.018	1.00	18.12	E	O
	ATOM	6255	C	ASP	E	243	10.327	41.607	36.370	1.00	23.89	E	C
10	ATOM	6256	O	ASP	E	243	10.399	42.826	36.206	1.00	24.66	E	O
	ATOM	6257	N	MET	E	244	10.169	41.042	37.562	1.00	22.24	E	N
	ATOM	6258	CA	MET	E	244	10.065	41.827	38.786	1.00	21.56	E	C
	ATOM	6259	CB	MET	E	244	9.742	40.906	39.960	1.00	20.20	E	C
	ATOM	6260	CG	MET	E	244	9.642	41.611	41.298	1.00	21.18	E	C
15	ATOM	6261	SD	MET	E	244	9.711	40.451	42.696	1.00	23.66	E	S
	ATOM	6262	CE	MET	E	244	11.436	40.038	42.722	1.00	20.65	E	C
	ATOM	6263	C	MET	E	244	11.369	42.571	39.066	1.00	21.70	E	C
	ATOM	6264	O	MET	E	244	11.368	43.747	39.441	1.00	19.61	E	O
	ATOM	6265	N	ASN	E	245	12.482	41.872	38.882	1.00	22.42	E	N
20	ATOM	6266	CA	ASN	E	245	13.793	42.457	39.111	1.00	22.62	E	C
	ATOM	6267	CB	ASN	E	245	14.866	41.376	39.008	1.00	23.99	E	C
	ATOM	6268	CG	ASN	E	245	14.947	40.527	40.259	1.00	26.84	E	C
	ATOM	6269	OD1	ASN	E	245	14.921	41.046	41.373	1.00	27.02	E	O
	ATOM	6270	ND2	ASN	E	245	15.041	39.215	40.083	1.00	28.42	E	N
25	ATOM	6271	C	ASN	E	245	14.076	43.579	38.121	1.00	22.10	E	C
	ATOM	6272	O	ASN	E	245	14.785	44.534	38.437	1.00	21.91	E	O
	ATOM	6273	N	PHE	E	246	13.517	43.456	36.923	1.00	22.16	E	N
	ATOM	6274	CA	PHE	E	246	13.707	44.468	35.890	1.00	21.71	E	C
	ATOM	6275	CB	PHE	E	246	13.224	43.953	34.532	1.00	20.57	E	C
30	ATOM	6276	CG	PHE	E	246	12.784	45.043	33.604	1.00	21.66	E	C
	ATOM	6277	CD1	PHE	E	246	11.439	45.335	33.445	1.00	20.79	E	C
	ATOM	6278	CD2	PHE	E	246	13.719	45.800	32.910	1.00	23.41	E	C
	ATOM	6279	CE1	PHE	E	246	11.029	46.364	32.612	1.00	19.43	E	C
	ATOM	6280	CE2	PHE	E	246	13.314	46.832	32.073	1.00	23.73	E	C
35	ATOM	6281	CZ	PHE	E	246	11.963	47.111	31.927	1.00	19.43	E	C
	ATOM	6282	C	PHE	E	246	12.920	45.716	36.271	1.00	21.04	E	C
	ATOM	6283	O	PHE	E	246	13.429	46.833	36.176	1.00	22.78	E	O
	ATOM	6284	N	LEU	E	247	11.676	45.524	36.695	1.00	18.92	E	N
	ATOM	6285	CA	LEU	E	247	10.833	46.644	37.088	1.00	19.42	E	C
40	ATOM	6286	CB	LEU	E	247	9.400	46.165	37.333	1.00	17.75	E	C
	ATOM	6287	CG	LEU	E	247	8.619	45.791	36.065	1.00	17.15	E	C
	ATOM	6288	CD1	LEU	E	247	7.282	45.154	36.439	1.00	13.90	E	C
	ATOM	6289	CD2	LEU	E	247	8.405	47.042	35.219	1.00	12.74	E	C
	ATOM	6290	C	LEU	E	247	11.395	47.314	38.342	1.00	20.60	E	C
45	ATOM	6291	O	LEU	E	247	11.330	48.532	38.483	1.00	20.84	E	O
	ATOM	6292	N	LEU	E	248	11.954	46.517	39.247	1.00	20.88	E	N
	ATOM	6293	CA	LEU	E	248	12.540	47.065	40.458	1.00	21.60	E	C
	ATOM	6294	CB	LEU	E	248	13.095	45.941	41.337	1.00	23.02	E	C
	ATOM	6295	CG	LEU	E	248	12.536	45.706	42.749	1.00	25.22	E	C
50	ATOM	6296	CD1	LEU	E	248	11.160	46.322	42.917	1.00	25.83	E	C
	ATOM	6297	CD2	LEU	E	248	12.476	44.208	43.011	1.00	25.18	E	C
	ATOM	6298	C	LEU	E	248	13.663	48.016	40.052	1.00	22.32	E	C
	ATOM	6299	O	LEU	E	248	13.793	49.106	40.607	1.00	23.61	E	O
	ATOM	6300	N	ALA	E	249	14.469	47.609	39.074	1.00	22.02	E	N
55	ATOM	6301	CA	ALA	E	249	15.573	48.446	38.603	1.00	20.88	E	C
	ATOM	6302	CB	ALA	E	249	16.481	47.639	37.682	1.00	20.01	E	C
	ATOM	6303	C	ALA	E	249	15.053	49.687	37.874	1.00	21.82	E	C
	ATOM	6304	O	ALA	E	249	15.519	50.805	38.102	1.00	20.55	E	O
	ATOM	6305	N	LEU	E	250	14.072	49.474	37.006	1.00	21.97	E	N
60	ATOM	6306	CA	LEU	E	250	13.480	50.548	36.227	1.00	21.82	E	C
	ATOM	6307	CB	LEU	E	250	12.344	49.996	35.361	1.00	21.64	E	C
	ATOM	6308	CG	LEU	E	250	11.726	50.976	34.360	1.00	20.44	E	C
	ATOM	6309	CD1	LEU	E	250	12.684	51.177	33.202	1.00	18.42	E	C
	ATOM	6310	CD2	LEU	E	250	10.388	50.446	33.872	1.00	19.71	E	C
65	ATOM	6311	C	LEU	E	250	12.962	51.712	37.066	1.00	22.28	E	C
	ATOM	6312	O	LEU	E	250	13.341	52.853	36.834	1.00	22.25	E	O
	ATOM	6313	N	ILE	E	251	12.097	51.434	38.038	1.00	23.52	E	N
	ATOM	6314	CA	ILE	E	251	11.536	52.506	38.859	1.00	24.91	E	C

	ATOM	6315	CB	ILE	E	251	10.442	51.987	39.830	1.00	24.63	E	C
	ATOM	6316	CG2	ILE	E	251	9.416	51.171	39.071	1.00	24.22	E	C
	ATOM	6317	CG1	ILE	E	251	11.072	51.148	40.941	1.00	25.17	E	C
	ATOM	6318	CD1	ILE	E	251	10.054	50.581	41.912	1.00	23.14	E	C
5	ATOM	6319	C	ILE	E	251	12.576	53.264	39.673	1.00	25.78	E	C
	ATOM	6320	O	ILE	E	251	12.296	54.344	40.196	1.00	24.61	E	O
	ATOM	6321	N	ALA	E	252	13.775	52.701	39.770	1.00	25.97	E	N
	ATOM	6322	CA	ALA	E	252	14.848	53.336	40.520	1.00	26.47	E	C
10	ATOM	6323	CB	ALA	E	252	15.552	52.301	41.383	1.00	26.66	E	C
	ATOM	6324	C	ALA	E	252	15.853	54.034	39.604	1.00	27.89	E	C
	ATOM	6325	O	ALA	E	252	16.760	54.717	40.083	1.00	27.13	E	O
	ATOM	6326	N	GLN	E	253	15.681	53.863	38.291	1.00	28.45	E	N
	ATOM	6327	CA	GLN	E	253	16.567	54.466	37.290	1.00	28.31	E	C
	ATOM	6328	CB	GLN	E	253	16.272	53.878	35.916	1.00	31.52	E	C
15	ATOM	6329	CG	GLN	E	253	17.488	53.341	35.199	1.00	35.12	E	C
	ATOM	6330	CD	GLN	E	253	17.113	52.317	34.149	1.00	38.21	E	C
	ATOM	6331	OE1	GLN	E	253	17.399	51.130	34.296	1.00	40.47	E	O
	ATOM	6332	NE2	GLN	E	253	16.461	52.772	33.082	1.00	40.72	E	N
20	ATOM	6333	C	GLN	E	253	16.429	55.984	37.226	1.00	26.67	E	C
	ATOM	6334	O	GLN	E	253	15.336	56.511	37.026	1.00	26.34	E	O
	ATOM	6335	N	GLY	E	254	17.556	56.675	37.376	1.00	26.24	E	N
	ATOM	6336	CA	GLY	E	254	17.571	58.129	37.363	1.00	24.04	E	C
	ATOM	6337	C	GLY	E	254	16.894	58.790	36.181	1.00	23.83	E	C
	ATOM	6338	O	GLY	E	254	15.954	59.561	36.362	1.00	25.05	E	O
25	ATOM	6339	N	PRO	E	255	17.361	58.525	34.955	1.00	23.22	E	N
	ATOM	6340	CD	PRO	E	255	18.506	57.657	34.636	1.00	21.80	E	C
	ATOM	6341	CA	PRO	E	255	16.775	59.111	33.743	1.00	22.57	E	C
	ATOM	6342	CB	PRO	E	255	17.625	58.526	32.615	1.00	21.93	E	C
	ATOM	6343	CG	PRO	E	255	18.909	58.138	33.282	1.00	21.25	E	C
30	ATOM	6344	C	PRO	E	255	15.289	58.801	33.569	1.00	21.04	E	C
	ATOM	6345	O	PRO	E	255	14.529	59.644	33.103	1.00	21.75	E	O
	ATOM	6346	N	VAL	E	256	14.877	57.591	33.938	1.00	20.98	E	N
	ATOM	6347	CA	VAL	E	256	13.473	57.205	33.810	1.00	20.94	E	C
	ATOM	6348	CB	VAL	E	256	13.278	55.696	34.076	1.00	19.46	E	C
35	ATOM	6349	CG1	VAL	E	256	11.834	55.298	33.804	1.00	17.18	E	C
	ATOM	6350	CG2	VAL	E	256	14.227	54.888	33.203	1.00	20.46	E	C
	ATOM	6351	C	VAL	E	256	12.628	58.001	34.798	1.00	22.84	E	C
	ATOM	6352	O	VAL	E	256	11.501	58.405	34.494	1.00	24.28	E	O
	ATOM	6353	N	LYS	E	257	13.187	58.228	35.984	1.00	22.89	E	N
40	ATOM	6354	CA	LYS	E	257	12.507	58.982	37.033	1.00	23.01	E	C
	ATOM	6355	CB	LYS	E	257	13.349	58.977	38.319	1.00	24.18	E	C
	ATOM	6356	CG	LYS	E	257	12.902	57.957	39.362	1.00	27.33	E	C
	ATOM	6357	CD	LYS	E	257	14.087	57.344	40.093	1.00	29.99	E	C
	ATOM	6358	CE	LYS	E	257	14.507	58.192	41.288	1.00	31.63	E	C
45	ATOM	6359	NZ	LYS	E	257	16.002	58.230	41.445	1.00	34.64	E	N
	ATOM	6360	C	LYS	E	257	12.276	60.417	36.581	1.00	21.17	E	C
	ATOM	6361	O	LYS	E	257	11.207	60.984	36.796	1.00	20.77	E	O
	ATOM	6362	N	THR	E	258	13.288	60.998	35.946	1.00	21.88	E	N
	ATOM	6363	CA	THR	E	258	13.206	62.371	35.463	1.00	21.13	E	C
50	ATOM	6364	CB	THR	E	258	14.583	62.871	35.008	1.00	23.18	E	C
	ATOM	6365	OG1	THR	E	258	15.453	62.923	36.143	1.00	26.47	E	O
	ATOM	6366	CG2	THR	E	258	14.480	64.262	34.405	1.00	21.77	E	C
	ATOM	6367	C	THR	E	258	12.222	62.532	34.317	1.00	19.15	E	C
	ATOM	6368	O	THR	E	258	11.386	63.431	34.327	1.00	19.73	E	O
55	ATOM	6369	N	TYR	E	259	12.323	61.657	33.327	1.00	17.50	E	N
	ATOM	6370	CA	TYR	E	259	11.430	61.726	32.184	1.00	15.49	E	C
	ATOM	6371	CB	TYR	E	259	11.755	60.602	31.196	1.00	15.18	E	C
	ATOM	6372	CG	TYR	E	259	10.800	60.545	30.027	1.00	18.03	E	C
	ATOM	6373	CD1	TYR	E	259	9.765	59.609	29.992	1.00	17.98	E	C
60	ATOM	6374	CE1	TYR	E	259	8.860	59.582	28.934	1.00	19.75	E	C
	ATOM	6375	CD2	TYR	E	259	10.908	61.452	28.973	1.00	17.97	E	C
	ATOM	6376	CE2	TYR	E	259	10.011	61.434	27.913	1.00	19.05	E	C
	ATOM	6377	CZ	TYR	E	259	8.989	60.499	27.900	1.00	20.68	E	C
	ATOM	6378	OH	TYR	E	259	8.086	60.496	26.863	1.00	21.60	E	O
65	ATOM	6379	C	TYR	E	259	9.979	61.615	32.642	1.00	14.69	E	C
	ATOM	6380	O	TYR	E	259	9.148	62.477	32.346	1.00	12.96	E	O
	ATOM	6381	N	THR	E	260	9.673	60.553	33.376	1.00	16.29	E	N
	ATOM	6382	CA	THR	E	260	8.306	60.338	33.846	1.00	17.92	E	C

	ATOM	6383	CB	THR	E	260	8.179	58.990	34.605	1.00	18.34	E	C
	ATOM	6384	OG1	THR	E	260	9.147	58.926	35.663	1.00	18.66	E	O
	ATOM	6385	CG2	THR	E	260	8.420	57.826	33.646	1.00	17.01	E	C
	ATOM	6386	C	THR	E	260	7.810	61.483	34.727	1.00	18.40	E	C
5	ATOM	6387	O	THR	E	260	6.641	61.864	34.665	1.00	18.90	E	O
	ATOM	6388	N	HIS	E	261	8.702	62.043	35.537	1.00	19.36	E	N
	ATOM	6389	CA	HIS	E	261	8.328	63.144	36.414	1.00	18.29	E	C
	ATOM	6390	CB	HIS	E	261	9.499	63.530	37.314	1.00	20.25	E	C
	ATOM	6391	CG	HIS	E	261	9.163	64.604	38.299	1.00	20.79	E	C
10	ATOM	6392	CD2	HIS	E	261	8.176	64.686	39.221	1.00	20.62	E	C
	ATOM	6393	ND1	HIS	E	261	9.860	65.791	38.375	1.00	21.51	E	N
	ATOM	6394	CE1	HIS	E	261	9.315	66.558	39.301	1.00	21.29	E	C
	ATOM	6395	NE2	HIS	E	261	8.292	65.911	39.828	1.00	19.87	E	N
	ATOM	6396	C	HIS	E	261	7.905	64.346	35.589	1.00	18.21	E	C
15	ATOM	6397	O	HIS	E	261	6.890	64.985	35.872	1.00	17.76	E	O
	ATOM	6398	N	ARG	E	262	8.695	64.652	34.568	1.00	18.43	E	N
	ATOM	6399	CA	ARG	E	262	8.406	65.773	33.678	1.00	18.91	E	C
	ATOM	6400	CB	ARG	E	262	9.547	65.931	32.667	1.00	21.93	E	C
	ATOM	6401	CG	ARG	E	262	9.741	67.349	32.173	1.00	29.39	E	C
20	ATOM	6402	CD	ARG	E	262	10.797	67.420	31.073	1.00	35.97	E	C
	ATOM	6403	NE	ARG	E	262	12.000	66.650	31.391	1.00	40.70	E	N
	ATOM	6404	CZ	ARG	E	262	12.540	65.743	30.579	1.00	43.97	E	C
	ATOM	6405	NH1	ARG	E	262	11.980	65.494	29.400	1.00	44.28	E	N
	ATOM	6406	NH2	ARG	E	262	13.643	65.088	30.939	1.00	44.58	E	N
25	ATOM	6407	C	ARG	E	262	7.073	65.573	32.949	1.00	14.63	E	C
	ATOM	6408	O	ARG	E	262	6.254	66.489	32.877	1.00	15.00	E	O
	ATOM	6409	N	ARG	E	263	6.845	64.373	32.422	1.00	13.64	E	N
	ATOM	6410	CA	ARG	E	263	5.603	64.098	31.707	1.00	11.51	E	C
	ATOM	6411	CB	ARG	E	263	5.634	62.687	31.128	1.00	10.05	E	C
30	ATOM	6412	CG	ARG	E	263	6.736	62.434	30.085	1.00	10.14	E	C
	ATOM	6413	CD	ARG	E	263	6.852	63.544	29.031	1.00	8.54	E	C
	ATOM	6414	NE	ARG	E	263	5.580	63.846	28.383	1.00	9.36	E	N
	ATOM	6415	CZ	ARG	E	263	5.318	64.989	27.751	1.00	9.81	E	C
	ATOM	6416	NH1	ARG	E	263	6.244	65.932	27.684	1.00	8.80	E	N
35	ATOM	6417	NH2	ARG	E	263	4.126	65.201	27.203	1.00	6.84	E	N
	ATOM	6418	C	ARG	E	263	4.377	64.280	32.607	1.00	12.69	E	C
	ATOM	6419	O	ARG	E	263	3.345	64.809	32.174	1.00	13.24	E	O
	ATOM	6420	N	LEU	E	264	4.497	63.862	33.866	1.00	11.46	E	N
	ATOM	6421	CA	LEU	E	264	3.401	64.001	34.823	1.00	10.95	E	C
40	ATOM	6422	CB	LEU	E	264	3.741	63.263	36.123	1.00	9.43	E	C
	ATOM	6423	CG	LEU	E	264	3.704	61.736	35.993	1.00	6.05	E	C
	ATOM	6424	CD1	LEU	E	264	4.435	61.084	37.158	1.00	7.55	E	C
	ATOM	6425	CD2	LEU	E	264	2.260	61.265	35.935	1.00	5.00	E	C
	ATOM	6426	C	LEU	E	264	3.109	65.475	35.099	1.00	10.58	E	C
45	ATOM	6427	O	LEU	E	264	1.956	65.877	35.250	1.00	8.45	E	O
	ATOM	6428	N	LYS	E	265	4.162	66.284	35.155	1.00	14.55	E	N
	ATOM	6429	CA	LYS	E	265	4.006	67.718	35.373	1.00	14.61	E	C
	ATOM	6430	CB	LYS	E	265	5.372	68.394	35.464	1.00	17.84	E	C
	ATOM	6431	CG	LYS	E	265	5.983	68.396	36.862	1.00	23.01	E	C
50	ATOM	6432	CD	LYS	E	265	7.501	68.578	36.814	1.00	27.67	E	C
	ATOM	6433	CE	LYS	E	265	7.893	70.041	36.643	1.00	31.25	E	C
	ATOM	6434	NZ	LYS	E	265	9.261	70.222	36.044	1.00	35.15	E	N
	ATOM	6435	C	LYS	E	265	3.238	68.277	34.178	1.00	15.99	E	C
	ATOM	6436	O	LYS	E	265	2.342	69.111	34.334	1.00	17.97	E	O
55	ATOM	6437	N	PHE	E	266	3.583	67.810	32.977	1.00	15.88	E	N
	ATOM	6438	CA	PHE	E	266	2.901	68.279	31.776	1.00	14.70	E	C
	ATOM	6439	CB	PHE	E	266	3.563	67.719	30.508	1.00	14.32	E	C
	ATOM	6440	CG	PHE	E	266	2.882	68.158	29.236	1.00	14.09	E	C
	ATOM	6441	CD1	PHE	E	266	3.111	69.428	28.708	1.00	13.50	E	C
60	ATOM	6442	CD2	PHE	E	266	1.957	67.330	28.602	1.00	13.04	E	C
	ATOM	6443	CE1	PHE	E	266	2.418	69.870	27.571	1.00	13.30	E	C
	ATOM	6444	CE2	PHE	E	266	1.262	67.763	27.464	1.00	12.02	E	C
	ATOM	6445	CZ	PHE	E	266	1.491	69.033	26.952	1.00	11.89	E	C
	ATOM	6446	C	PHE	E	266	1.430	67.878	31.808	1.00	12.87	E	C
65	ATOM	6447	O	PHE	E	266	0.551	68.689	31.507	1.00	14.02	E	O
	ATOM	6448	N	LEU	E	267	1.166	66.625	32.168	1.00	12.41	E	N
	ATOM	6449	CA	LEU	E	267	-0.205	66.121	32.245	1.00	11.96	E	C
	ATOM	6450	CB	LEU	E	267	-0.191	64.687	32.778	1.00	13.87	E	C

	ATOM	6451	CG	LEU	E	267	-0.443	63.468	31.876	1.00	15.20	E	C
	ATOM	6452	CD1	LEU	E	267	-0.254	63.811	30.406	1.00	13.09	E	C
	ATOM	6453	CD2	LEU	E	267	0.498	62.358	32.296	1.00	12.50	E	C
	ATOM	6454	C	LEU	E	267	-1.047	67.012	33.169	1.00	12.50	E	C
5	ATOM	6455	O	LEU	E	267	-2.229	67.270	32.917	1.00	11.70	E	O
	ATOM	6456	N	SER	E	268	-0.415	67.489	34.237	1.00	12.60	E	N
	ATOM	6457	CA	SER	E	268	-1.066	68.346	35.222	1.00	10.88	E	C
	ATOM	6458	CB	SER	E	268	-0.171	68.462	36.459	1.00	12.97	E	C
	ATOM	6459	OG	SER	E	268	-0.806	69.199	37.487	1.00	14.03	E	O
10	ATOM	6460	C	SER	E	268	-1.358	69.736	34.667	1.00	10.80	E	C
	ATOM	6461	O	SER	E	268	-2.501	70.198	34.707	1.00	10.50	E	O
	ATOM	6462	N	SER	E	269	-0.329	70.414	34.159	1.00	11.08	E	N
	ATOM	6463	CA	SER	E	269	-0.516	71.753	33.589	1.00	11.58	E	C
	ATOM	6464	CB	SER	E	269	0.816	72.328	33.126	1.00	12.03	E	C
15	ATOM	6465	OG	SER	E	269	1.732	72.450	34.194	1.00	10.98	E	O
	ATOM	6466	C	SER	E	269	-1.486	71.741	32.405	1.00	11.80	E	C
	ATOM	6467	O	SER	E	269	-2.321	72.640	32.265	1.00	12.09	E	O
	ATOM	6468	N	LYS	E	270	-1.379	70.729	31.545	1.00	12.14	E	N
	ATOM	6469	CA	LYS	E	270	-2.277	70.655	30.406	1.00	12.57	E	C
20	ATOM	6470	CB	LYS	E	270	-2.000	69.404	29.561	1.00	12.57	E	C
	ATOM	6471	CG	LYS	E	270	-2.411	69.574	28.090	1.00	9.93	E	C
	ATOM	6472	CD	LYS	E	270	-2.519	68.246	27.358	1.00	8.42	E	C
	ATOM	6473	CE	LYS	E	270	-3.331	68.382	26.070	1.00	9.10	E	C
	ATOM	6474	NZ	LYS	E	270	-3.501	67.070	25.369	1.00	10.04	E	N
25	ATOM	6475	C	LYS	E	270	-3.733	70.662	30.846	1.00	13.95	E	C
	ATOM	6476	O	LYS	E	270	-4.553	71.365	30.264	1.00	14.74	E	O
	ATOM	6477	N	PHE	E	271	-4.068	69.883	31.871	1.00	14.73	E	N
	ATOM	6478	CA	PHE	E	271	-5.449	69.848	32.329	1.00	14.65	E	C
	ATOM	6479	CB	PHE	E	271	-5.639	68.827	33.453	1.00	14.10	E	C
30	ATOM	6480	CG	PHE	E	271	-7.075	68.635	33.834	1.00	13.61	E	C
	ATOM	6481	CD1	PHE	E	271	-7.911	67.831	33.058	1.00	12.39	E	C
	ATOM	6482	CD2	PHE	E	271	-7.615	69.303	34.937	1.00	13.18	E	C
	ATOM	6483	CE1	PHE	E	271	-9.268	67.697	33.369	1.00	14.24	E	C
	ATOM	6484	CE2	PHE	E	271	-8.971	69.178	35.260	1.00	11.80	E	C
35	ATOM	6485	CZ	PHE	E	271	-9.804	68.372	34.473	1.00	11.60	E	C
	ATOM	6486	C	PHE	E	271	-5.922	71.212	32.817	1.00	17.63	E	C
	ATOM	6487	O	PHE	E	271	-7.066	71.606	32.582	1.00	19.61	E	O
	ATOM	6488	N	GLN	E	272	-5.040	71.934	33.496	1.00	17.85	E	N
	ATOM	6489	CA	GLN	E	272	-5.375	73.251	34.020	1.00	18.16	E	C
40	ATOM	6490	CB	GLN	E	272	-4.204	73.799	34.830	1.00	20.56	E	C
	ATOM	6491	CG	GLN	E	272	-4.445	73.783	36.326	1.00	29.05	E	C
	ATOM	6492	CD	GLN	E	272	-3.611	72.738	37.045	1.00	30.98	E	C
	ATOM	6493	OE1	GLN	E	272	-2.488	73.012	37.483	1.00	32.70	E	O
	ATOM	6494	NE2	GLN	E	272	-4.158	71.530	37.174	1.00	31.83	E	N
45	ATOM	6495	C	GLN	E	272	-5.731	74.232	32.910	1.00	16.59	E	C
	ATOM	6496	O	GLN	E	272	-6.691	74.996	33.026	1.00	15.47	E	O
	ATOM	6497	N	VAL	E	273	-4.946	74.226	31.837	1.00	14.34	E	N
	ATOM	6498	CA	VAL	E	273	-5.221	75.124	30.732	1.00	13.09	E	C
	ATOM	6499	CB	VAL	E	273	-4.043	75.152	29.740	1.00	13.71	E	C
50	ATOM	6500	CG1	VAL	E	273	-4.393	76.003	28.529	1.00	13.96	E	C
	ATOM	6501	CG2	VAL	E	273	-2.811	75.707	30.434	1.00	11.71	E	C
	ATOM	6502	C	VAL	E	273	-6.504	74.672	30.038	1.00	13.03	E	C
	ATOM	6503	O	VAL	E	273	-7.338	75.495	29.663	1.00	13.71	E	O
	ATOM	6504	N	HIS	E	274	-6.674	73.361	29.888	1.00	12.93	E	N
55	ATOM	6505	CA	HIS	E	274	-7.879	72.829	29.253	1.00	14.62	E	C
	ATOM	6506	CB	HIS	E	274	-7.838	71.299	29.214	1.00	13.47	E	C
	ATOM	6507	CG	HIS	E	274	-9.169	70.663	28.935	1.00	13.74	E	C
	ATOM	6508	CD2	HIS	E	274	-10.009	69.963	29.735	1.00	14.60	E	C
	ATOM	6509	ND1	HIS	E	274	-9.781	70.725	27.703	1.00	13.60	E	N
60	ATOM	6510	CE1	HIS	E	274	-10.940	70.093	27.753	1.00	13.01	E	C
	ATOM	6511	NE2	HIS	E	274	-11.102	69.621	28.976	1.00	13.70	E	N
	ATOM	6512	C	HIS	E	274	-9.118	73.278	30.016	1.00	16.75	E	C
	ATOM	6513	O	HIS	E	274	-10.082	73.777	29.431	1.00	15.44	E	O
	ATOM	6514	N	GLN	E	275	-9.088	73.102	31.333	1.00	20.68	E	N
65	ATOM	6515	CA	GLN	E	275	-10.224	73.481	32.165	1.00	24.82	E	C
	ATOM	6516	CB	GLN	E	275	-10.003	73.031	33.610	1.00	27.38	E	C
	ATOM	6517	CG	GLN	E	275	-11.008	71.985	34.075	1.00	36.13	E	C
	ATOM	6518	CD	GLN	E	275	-11.081	71.875	35.597	1.00	41.86	E	C

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5	ATOM	6519	OE1	GLN	E	275	-10.459	72.664	36.325	1.00	42.62	E	O
	ATOM	6520	NE2	GLN	E	275	-11.842	70.893	36.086	1.00	42.20	E	N
	ATOM	6521	C	GLN	E	275	-10.519	74.974	32.136	1.00	24.09	E	C
	ATOM	6522	O	GLN	E	275	-11.674	75.381	32.028	1.00	24.51	E	O
	ATOM	6523	N	MET	E	276	-9.485	75.798	32.226	1.00	23.97	E	N
	ATOM	6524	CA	MET	E	276	-9.718	77.227	32.215	1.00	25.02	E	C
	ATOM	6525	CB	MET	E	276	-8.464	77.975	32.664	1.00	28.21	E	C
10	ATOM	6526	CG	MET	E	276	-7.429	78.205	31.596	1.00	31.58	E	C
	ATOM	6527	SD	MET	E	276	-6.035	79.100	32.292	1.00	39.02	E	S
	ATOM	6528	CE	MET	E	276	-5.203	77.810	33.254	1.00	34.26	E	C
	ATOM	6529	C	MET	E	276	-10.180	77.711	30.850	1.00	24.05	E	C
	ATOM	6530	O	MET	E	276	-10.871	78.721	30.746	1.00	25.40	E	O
15	ATOM	6531	N	LEU	E	277	-9.827	76.978	29.802	1.00	22.40	E	N
	ATOM	6532	CA	LEU	E	277	-10.228	77.351	28.447	1.00	21.26	E	C
	ATOM	6533	CB	LEU	E	277	-9.147	76.913	27.452	1.00	20.59	E	C
	ATOM	6534	CG	LEU	E	277	-8.219	77.900	26.737	1.00	20.01	E	C
	ATOM	6535	CD1	LEU	E	277	-7.986	79.167	27.554	1.00	18.50	E	C
20	ATOM	6536	CD2	LEU	E	277	-6.910	77.185	26.480	1.00	20.26	E	C
	ATOM	6537	C	LEU	E	277	-11.569	76.743	27.997	1.00	20.90	E	C
	ATOM	6538	O	LEU	E	277	-12.314	77.371	27.239	1.00	20.49	E	O
	ATOM	6539	N	ASN	E	278	-11.884	75.538	28.476	1.00	18.18	E	N
	ATOM	6540	CA	ASN	E	278	-13.090	74.842	28.033	1.00	16.08	E	C
25	ATOM	6541	CB	ASN	E	278	-12.667	73.675	27.136	1.00	14.60	E	C
	ATOM	6542	CG	ASN	E	278	-11.701	74.101	26.047	1.00	13.99	E	C
	ATOM	6543	OD1	ASN	E	278	-10.548	73.653	25.995	1.00	15.54	E	O
	ATOM	6544	ND2	ASN	E	278	-12.166	74.975	25.167	1.00	12.51	E	N
	ATOM	6545	C	ASN	E	278	-14.117	74.324	29.043	1.00	16.49	E	C
30	ATOM	6546	O	ASN	E	278	-15.063	73.631	28.655	1.00	15.76	E	O
	ATOM	6547	N	GLU	E	279	-13.961	74.647	30.323	1.00	18.32	E	N
	ATOM	6548	CA	GLU	E	279	-14.916	74.165	31.320	1.00	18.50	E	C
	ATOM	6549	CB	GLU	E	279	-14.496	74.610	32.722	1.00	19.81	E	C
	ATOM	6550	CG	GLU	E	279	-14.348	76.108	32.877	1.00	23.41	E	C
35	ATOM	6551	CD	GLU	E	279	-14.049	76.505	34.303	1.00	27.30	E	C
	ATOM	6552	OE1	GLU	E	279	-14.499	75.782	35.216	1.00	29.99	E	O
	ATOM	6553	OE2	GLU	E	279	-13.369	77.534	34.511	1.00	27.50	E	O
	ATOM	6554	C	GLU	E	279	-16.352	74.613	31.035	1.00	16.97	E	C
	ATOM	6555	O	GLU	E	279	-17.294	73.846	31.228	1.00	16.75	E	O
40	ATOM	6556	N	MET	E	280	-16.526	75.847	30.574	1.00	17.48	E	N
	ATOM	6557	CA	MET	E	280	-17.869	76.350	30.274	1.00	19.06	E	C
	ATOM	6558	CB	MET	E	280	-17.816	77.842	29.935	1.00	23.36	E	C
	ATOM	6559	CG	MET	E	280	-17.608	78.769	31.137	1.00	32.24	E	C
	ATOM	6560	SD	MET	E	280	-18.587	78.313	32.624	1.00	42.97	E	S
45	ATOM	6561	CE	MET	E	280	-20.141	79.183	32.296	1.00	40.50	E	C
	ATOM	6562	C	MET	E	280	-18.469	75.579	29.102	1.00	18.26	E	C
	ATOM	6563	O	MET	E	280	-19.686	75.414	28.995	1.00	17.68	E	O
	ATOM	6564	N	ASP	E	281	-17.595	75.098	28.229	1.00	17.37	E	N
	ATOM	6565	CA	ASP	E	281	-18.007	74.337	27.060	1.00	17.88	E	C
50	ATOM	6566	CB	ASP	E	281	-16.873	74.341	26.038	1.00	19.17	E	C
	ATOM	6567	CG	ASP	E	281	-16.593	75.741	25.513	1.00	21.62	E	C
	ATOM	6568	OD1	ASP	E	281	-15.498	76.286	25.778	1.00	23.61	E	O
	ATOM	6569	OD2	ASP	E	281	-17.488	76.306	24.843	1.00	23.80	E	O
	ATOM	6570	C	ASP	E	281	-18.411	72.919	27.433	1.00	17.59	E	C
55	ATOM	6571	O	ASP	E	281	-19.375	72.376	26.885	1.00	14.66	E	O
	ATOM	6572	N	GLU	E	282	-17.674	72.314	28.361	1.00	17.35	E	N
	ATOM	6573	CA	GLU	E	282	-18.030	70.973	28.815	1.00	16.43	E	C
	ATOM	6574	CB	GLU	E	282	-16.958	70.421	29.754	1.00	15.60	E	C
	ATOM	6575	CG	GLU	E	282	-15.654	70.107	29.053	1.00	13.12	E	C
60	ATOM	6576	CD	GLU	E	282	-14.567	69.742	30.015	1.00	13.94	E	C
	ATOM	6577	OE1	GLU	E	282	-14.543	70.326	31.114	1.00	12.06	E	O
	ATOM	6578	OE2	GLU	E	282	-13.735	68.872	29.682	1.00	14.29	E	O
	ATOM	6579	C	GLU	E	282	-19.367	71.096	29.548	1.00	15.91	E	C
	ATOM	6580	O	GLU	E	282	-20.261	70.268	29.373	1.00	16.56	E	O
65	ATOM	6581	N	LEU	E	283	-19.508	72.151	30.347	1.00	14.64	E	N
	ATOM	6582	CA	LEU	E	283	-20.743	72.381	31.089	1.00	15.88	E	C
	ATOM	6583	CB	LEU	E	283	-20.636	73.664	31.918	1.00	16.18	E	C
	ATOM	6584	CG	LEU	E	283	-21.377	73.782	33.266	1.00	19.79	E	C
	ATOM	6585	CD1	LEU	E	283	-21.940	75.192	33.398	1.00	17.85	E	C
	ATOM	6586	CD2	LEU	E	283	-22.495	72.749	33.394	1.00	17.61	E	C

	ATOM	6587	C	LEU	E	283	-21.931	72.497	30.138	1.00	17.04	E	C
	ATOM	6588	O	LEU	E	283	-23.007	71.938	30.396	1.00	16.83	E	O
	ATOM	6589	N	LYS	E	284	-21.741	73.238	29.048	1.00	17.80	E	N
	ATOM	6590	CA	LYS	E	284	-22.802	73.418	28.064	1.00	16.83	E	C
5	ATOM	6591	CB	LYS	E	284	-22.288	74.256	26.889	1.00	20.60	E	C
	ATOM	6592	CG	LYS	E	284	-23.351	74.611	25.856	1.00	22.44	E	C
	ATOM	6593	CD	LYS	E	284	-22.742	75.329	24.656	1.00	27.52	E	C
	ATOM	6594	CE	LYS	E	284	-23.815	75.795	23.671	1.00	30.96	E	C
	ATOM	6595	NZ	LYS	E	284	-23.250	76.575	22.521	1.00	33.78	E	N
10	ATOM	6596	C	LYS	E	284	-23.333	72.071	27.563	1.00	15.42	E	C
	ATOM	6597	O	LYS	E	284	-24.537	71.909	27.371	1.00	15.79	E	O
	ATOM	6598	N	GLU	E	285	-22.444	71.102	27.362	1.00	14.57	E	N
	ATOM	6599	CA	GLU	E	285	-22.869	69.781	26.894	1.00	15.47	E	C
	ATOM	6600	CB	GLU	E	285	-21.665	68.852	26.690	1.00	15.08	E	C
15	ATOM	6601	CG	GLU	E	285	-20.807	69.156	25.471	1.00	15.10	E	C
	ATOM	6602	CD	GLU	E	285	-19.821	68.033	25.148	1.00	15.69	E	C
	ATOM	6603	OE1	GLU	E	285	-20.273	66.917	24.803	1.00	14.66	E	O
	ATOM	6604	OE2	GLU	E	285	-18.593	68.266	25.241	1.00	15.37	E	O
	ATOM	6605	C	GLU	E	285	-23.820	69.130	27.894	1.00	17.50	E	C
20	ATOM	6606	O	GLU	E	285	-24.873	68.613	27.515	1.00	17.39	E	O
	ATOM	6607	N	LEU	E	286	-23.446	69.152	29.174	1.00	19.22	E	N
	ATOM	6608	CA	LEU	E	286	-24.276	68.549	30.216	1.00	19.49	E	C
	ATOM	6609	CB	LEU	E	286	-23.556	68.572	31.575	1.00	20.23	E	C
	ATOM	6610	CG	LEU	E	286	-22.094	68.122	31.741	1.00	22.37	E	C
25	ATOM	6611	CD1	LEU	E	286	-21.994	67.338	33.035	1.00	23.35	E	C
	ATOM	6612	CD2	LEU	E	286	-21.605	67.278	30.575	1.00	20.15	E	C
	ATOM	6613	C	LEU	E	286	-25.615	69.266	30.341	1.00	18.63	E	C
	ATOM	6614	O	LEU	E	286	-26.656	68.627	30.476	1.00	20.34	E	O
	ATOM	6615	N	LYS	E	287	-25.586	70.594	30.300	1.00	19.82	E	N
30	ATOM	6616	CA	LYS	E	287	-26.810	71.386	30.404	1.00	21.17	E	C
	ATOM	6617	CB	LYS	E	287	-26.486	72.877	30.341	1.00	21.52	E	C
	ATOM	6618	CG	LYS	E	287	-26.122	73.505	31.667	1.00	23.60	E	C
	ATOM	6619	CD	LYS	E	287	-25.329	74.778	31.449	1.00	25.31	E	C
	ATOM	6620	CE	LYS	E	287	-25.968	75.966	32.150	1.00	25.91	E	C
35	ATOM	6621	NZ	LYS	E	287	-24.974	77.059	32.387	1.00	27.98	E	N
	ATOM	6622	C	LYS	E	287	-27.768	71.045	29.271	1.00	21.31	E	C
	ATOM	6623	O	LYS	E	287	-28.982	70.992	29.464	1.00	22.68	E	O
	ATOM	6624	N	ASN	E	288	-27.216	70.813	28.086	1.00	22.77	E	N
	ATOM	6625	CA	ASN	E	288	-28.031	70.491	26.919	1.00	23.88	E	C
40	ATOM	6626	CB	ASN	E	288	-27.339	70.974	25.644	1.00	23.56	E	C
	ATOM	6627	CG	ASN	E	288	-27.441	72.473	25.469	1.00	22.25	E	C
	ATOM	6628	OD1	ASN	E	288	-28.486	73.067	25.723	1.00	21.29	E	O
	ATOM	6629	ND2	ASN	E	288	-26.353	73.094	25.038	1.00	25.80	E	N
	ATOM	6630	C	ASN	E	288	-28.348	69.007	26.810	1.00	24.66	E	C
45	ATOM	6631	O	ASN	E	288	-28.875	68.547	25.803	1.00	24.28	E	O
	ATOM	6632	N	ASN	E	289	-28.022	68.267	27.861	1.00	26.10	E	N
	ATOM	6633	CA	ASN	E	289	-28.288	66.836	27.921	1.00	27.31	E	C
	ATOM	6634	CB	ASN	E	289	-27.047	66.112	28.449	1.00	25.57	E	C
	ATOM	6635	CG	ASN	E	289	-27.189	64.615	28.408	1.00	24.07	E	C
50	ATOM	6636	OD1	ASN	E	289	-27.827	64.066	27.513	1.00	20.93	E	O
	ATOM	6637	ND2	ASN	E	289	-26.594	63.939	29.383	1.00	24.78	E	N
	ATOM	6638	C	ASN	E	289	-29.467	66.676	28.888	1.00	29.86	E	C
	ATOM	6639	O	ASN	E	289	-29.280	66.594	30.105	1.00	32.70	E	O
	ATOM	6640	N	PRO	E	290	-30.701	66.643	28.355	1.00	31.61	E	N
55	ATOM	6641	CD	PRO	E	290	-31.014	66.714	26.916	1.00	30.10	E	C
	ATOM	6642	CA	PRO	E	290	-31.919	66.505	29.168	1.00	32.97	E	C
	ATOM	6643	CB	PRO	E	290	-33.035	66.853	28.191	1.00	32.48	E	C
	ATOM	6644	CG	PRO	E	290	-32.485	66.399	26.870	1.00	32.34	E	C
	ATOM	6645	C	PRO	E	290	-32.124	65.126	29.781	1.00	33.64	E	C
60	ATOM	6646	O	PRO	E	290	-32.954	64.944	30.673	1.00	33.05	E	O
	ATOM	6647	N	HIS	E	291	-31.359	64.158	29.299	1.00	34.54	E	N
	ATOM	6648	CA	HIS	E	291	-31.478	62.794	29.789	1.00	37.80	E	C
	ATOM	6649	CB	HIS	E	291	-30.848	61.828	28.782	1.00	40.57	E	C
	ATOM	6650	CG	HIS	E	291	-31.441	61.922	27.413	1.00	45.80	E	C
65	ATOM	6651	CD2	HIS	E	291	-32.408	61.192	26.809	1.00	46.22	E	C
	ATOM	6652	ND1	HIS	E	291	-31.068	62.890	26.505	1.00	47.31	E	N
	ATOM	6653	CE1	HIS	E	291	-31.781	62.753	25.401	1.00	48.14	E	C
	ATOM	6654	NE2	HIS	E	291	-32.601	61.729	25.560	1.00	47.40	E	N

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5	ATOM	6655	C	HIS	E	291	-30.855	62.562	31.164	1.00	36.43	E	C
	ATOM	6656	O	HIS	E	291	-31.268	61.661	31.891	1.00	38.15	E	O
	ATOM	6657	N	ARG	E	292	-29.882	63.381	31.537	1.00	32.78	E	N
	ATOM	6658	CA	ARG	E	292	-29.227	63.154	32.798	1.00	28.93	E	C
	ATOM	6659	CB	ARG	E	292	-28.157	62.081	32.596	1.00	28.62	E	C
	ATOM	6660	CG	ARG	E	292	-28.519	60.733	33.155	1.00	29.29	E	C
	ATOM	6661	CD	ARG	E	292	-27.963	59.634	32.301	1.00	28.93	E	C
10	ATOM	6662	NE	ARG	E	292	-29.022	58.829	31.694	1.00	30.32	E	N
	ATOM	6663	CZ	ARG	E	292	-29.825	58.007	32.364	1.00	29.07	E	C
	ATOM	6664	NH1	ARG	E	292	-29.706	57.867	33.676	1.00	31.75	E	N
	ATOM	6665	NH2	ARG	E	292	-30.746	57.312	31.719	1.00	27.34	E	N
	ATOM	6666	C	ARG	E	292	-28.577	64.341	33.482	1.00	28.04	E	C
	ATOM	6667	O	ARG	E	292	-28.348	65.410	32.887	1.00	27.55	E	O
	ATOM	6668	N	ASP	E	293	-28.297	64.107	34.762	1.00	24.80	E	N
15	ATOM	6669	CA	ASP	E	293	-27.582	65.020	35.640	1.00	22.90	E	C
	ATOM	6670	CB	ASP	E	293	-28.513	66.014	36.360	1.00	20.68	E	C
	ATOM	6671	CG	ASP	E	293	-29.551	65.346	37.235	1.00	22.20	E	C
	ATOM	6672	OD1	ASP	E	293	-30.608	65.978	37.449	1.00	22.64	E	O
	ATOM	6673	OD2	ASP	E	293	-29.325	64.216	37.715	1.00	20.49	E	O
	ATOM	6674	C	ASP	E	293	-26.897	64.055	36.602	1.00	21.61	E	C
	ATOM	6675	O	ASP	E	293	-27.173	62.853	36.557	1.00	19.19	E	O
20	ATOM	6676	N	PHE	E	294	-25.995	64.549	37.442	1.00	21.02	E	N
	ATOM	6677	CA	PHE	E	294	-25.275	63.672	38.361	1.00	20.17	E	C
	ATOM	6678	CB	PHE	E	294	-24.459	64.505	39.354	1.00	20.82	E	C
	ATOM	6679	CG	PHE	E	294	-23.688	63.677	40.343	1.00	20.88	E	C
	ATOM	6680	CD1	PHE	E	294	-22.503	63.048	39.970	1.00	20.06	E	C
	ATOM	6681	CD2	PHE	E	294	-24.156	63.506	41.640	1.00	20.58	E	C
	ATOM	6682	CE1	PHE	E	294	-21.794	62.257	40.875	1.00	19.88	E	C
25	ATOM	6683	CE2	PHE	E	294	-23.454	62.716	42.551	1.00	20.39	E	C
	ATOM	6684	CZ	PHE	E	294	-22.272	62.091	42.166	1.00	19.10	E	C
	ATOM	6685	C	PHE	E	294	-26.160	62.700	39.135	1.00	18.94	E	C
	ATOM	6686	O	PHE	E	294	-25.814	61.536	39.316	1.00	18.68	E	O
	ATOM	6687	N	TYR	E	295	-27.314	63.176	39.568	1.00	19.05	E	N
	ATOM	6688	CA	TYR	E	295	-28.214	62.362	40.360	1.00	19.61	E	C
	ATOM	6689	CB	TYR	E	295	-29.311	63.253	40.928	1.00	18.88	E	C
30	ATOM	6690	CG	TYR	E	295	-28.707	64.269	41.854	1.00	21.65	E	C
	ATOM	6691	CD1	TYR	E	295	-28.245	63.894	43.116	1.00	23.37	E	C
	ATOM	6692	CE1	TYR	E	295	-27.591	64.801	43.939	1.00	24.56	E	C
	ATOM	6693	CD2	TYR	E	295	-28.503	65.580	41.442	1.00	22.15	E	C
	ATOM	6694	CE2	TYR	E	295	-27.850	66.495	42.257	1.00	22.97	E	C
	ATOM	6695	CZ	TYR	E	295	-27.398	66.101	43.504	1.00	25.47	E	C
	ATOM	6696	OH	TYR	E	295	-26.771	67.013	44.326	1.00	26.39	E	O
35	ATOM	6697	C	TYR	E	295	-28.795	61.098	39.757	1.00	20.06	E	C
	ATOM	6698	O	TYR	E	295	-29.162	60.184	40.496	1.00	21.12	E	O
	ATOM	6699	N	ASN	E	296	-28.900	61.012	38.437	1.00	20.19	E	N
	ATOM	6700	CA	ASN	E	296	-29.418	59.775	37.875	1.00	19.30	E	C
	ATOM	6701	CB	ASN	E	296	-30.764	59.986	37.156	1.00	20.45	E	C
	ATOM	6702	CG	ASN	E	296	-30.674	60.879	35.941	1.00	20.58	E	C
	ATOM	6703	OD1	ASN	E	296	-31.604	60.914	35.144	1.00	20.96	E	O
40	ATOM	6704	ND2	ASN	E	296	-29.575	61.610	35.794	1.00	22.56	E	N
	ATOM	6705	C	ASN	E	296	-28.407	59.047	36.996	1.00	20.74	E	C
	ATOM	6706	O	ASN	E	296	-28.764	58.333	36.058	1.00	20.24	E	O
	ATOM	6707	N	CYS	E	297	-27.134	59.241	37.341	1.00	20.85	E	N
	ATOM	6708	CA	CYS	E	297	-26.003	58.581	36.695	1.00	19.73	E	C
	ATOM	6709	CB	CYS	E	297	-24.771	59.493	36.671	1.00	20.19	E	C
	ATOM	6710	SG	CYS	E	297	-24.722	60.688	35.333	1.00	26.54	E	S
45	ATOM	6711	C	CYS	E	297	-25.726	57.435	37.667	1.00	19.42	E	C
	ATOM	6712	O	CYS	E	297	-25.948	57.582	38.872	1.00	17.48	E	O
	ATOM	6713	N	ARG	E	298	-25.260	56.298	37.170	1.00	19.95	E	N
	ATOM	6714	CA	ARG	E	298	-24.962	55.195	38.068	1.00	20.05	E	C
	ATOM	6715	CB	ARG	E	298	-24.911	53.872	37.308	1.00	20.72	E	C
	ATOM	6716	CG	ARG	E	298	-26.217	53.117	37.315	1.00	21.96	E	C
	ATOM	6717	CD	ARG	E	298	-27.269	53.877	36.531	1.00	21.33	E	C
50	ATOM	6718	NE	ARG	E	298	-28.498	53.105	36.384	1.00	22.81	E	N
	ATOM	6719	CZ	ARG	E	298	-29.499	53.454	35.584	1.00	25.11	E	C
	ATOM	6720	NH1	ARG	E	298	-29.412	54.564	34.858	1.00	27.19	E	N
	ATOM	6721	NH2	ARG	E	298	-30.592	52.707	35.521	1.00	24.14	E	N
	ATOM	6722	C	ARG	E	298	-23.614	55.454	38.728	1.00	21.70	E	C

	ATOM	6723	O	ARG	E	298	-22.688	55.975	38.092	1.00	21.31	E	O
	ATOM	6724	N	LYS	E	299	-23.519	55.104	40.008	1.00	21.38	E	N
	ATOM	6725	CA	LYS	E	299	-22.294	55.269	40.784	1.00	19.10	E	C
	ATOM	6726	CB	LYS	E	299	-22.481	56.359	41.837	1.00	20.95	E	C
5	ATOM	6727	CG	LYS	E	299	-22.016	57.737	41.407	1.00	21.71	E	C
	ATOM	6728	CD	LYS	E	299	-23.142	58.558	40.791	1.00	22.24	E	C
	ATOM	6729	CE	LYS	E	299	-24.367	58.595	41.675	1.00	19.98	E	C
	ATOM	6730	NZ	LYS	E	299	-25.455	59.363	41.036	1.00	18.37	E	N
	ATOM	6731	C	LYS	E	299	-22.049	53.937	41.470	1.00	18.63	E	C
10	ATOM	6732	O	LYS	E	299	-22.983	53.329	41.977	1.00	17.93	E	O
	ATOM	6733	N	VAL	E	300	-20.807	53.471	41.482	1.00	17.10	E	N
	ATOM	6734	CA	VAL	E	300	-20.504	52.198	42.125	1.00	15.92	E	C
	ATOM	6735	CB	VAL	E	300	-19.998	51.160	41.093	1.00	14.79	E	C
	ATOM	6736	CG1	VAL	E	300	-19.690	49.839	41.786	1.00	13.20	E	C
15	ATOM	6737	CG2	VAL	E	300	-21.040	50.960	40.007	1.00	12.84	E	C
	ATOM	6738	C	VAL	E	300	-19.449	52.343	43.225	1.00	16.42	E	C
	ATOM	6739	O	VAL	E	300	-18.412	52.976	43.015	1.00	16.72	E	O
	ATOM	6740	N	ASP	E	301	-19.734	51.776	44.399	1.00	16.30	E	N
	ATOM	6741	CA	ASP	E	301	-18.801	51.795	45.529	1.00	14.95	E	C
20	ATOM	6742	CB	ASP	E	301	-19.534	51.519	46.845	1.00	15.71	E	C
	ATOM	6743	CG	ASP	E	301	-18.775	52.042	48.064	1.00	17.29	E	C
	ATOM	6744	OD1	ASP	E	301	-19.421	52.271	49.109	1.00	19.16	E	O
	ATOM	6745	OD2	ASP	E	301	-17.543	52.223	47.985	1.00	14.64	E	O
	ATOM	6746	C	ASP	E	301	-17.880	50.644	45.199	1.00	12.81	E	C
25	ATOM	6747	O	ASP	E	301	-18.165	49.492	45.512	1.00	12.47	E	O
	ATOM	6748	N	THR	E	302	-16.777	50.972	44.549	1.00	12.17	E	N
	ATOM	6749	CA	THR	E	302	-15.822	49.986	44.079	1.00	13.56	E	C
	ATOM	6750	CB	THR	E	302	-14.950	50.614	42.980	1.00	14.22	E	C
	ATOM	6751	OG1	THR	E	302	-14.572	51.938	43.384	1.00	14.79	E	O
30	ATOM	6752	CG2	THR	E	302	-15.735	50.704	41.659	1.00	9.75	E	C
	ATOM	6753	C	THR	E	302	-14.913	49.391	45.142	1.00	15.83	E	C
	ATOM	6754	O	THR	E	302	-14.155	48.458	44.872	1.00	13.35	E	O
	ATOM	6755	N	HIS	E	303	-14.987	49.924	46.352	1.00	16.82	E	N
	ATOM	6756	CA	HIS	E	303	-14.139	49.429	47.425	1.00	18.42	E	C
35	ATOM	6757	CB	HIS	E	303	-12.822	50.205	47.402	1.00	19.45	E	C
	ATOM	6758	CG	HIS	E	303	-12.052	50.158	48.684	1.00	22.36	E	C
	ATOM	6759	CD2	HIS	E	303	-11.714	49.123	49.491	1.00	21.35	E	C
	ATOM	6760	ND1	HIS	E	303	-11.489	51.283	49.246	1.00	22.51	E	N
	ATOM	6761	CE1	HIS	E	303	-10.837	50.943	50.344	1.00	22.34	E	C
40	ATOM	6762	NE2	HIS	E	303	-10.959	49.639	50.514	1.00	19.95	E	N
	ATOM	6763	C	HIS	E	303	-14.868	49.597	48.747	1.00	18.49	E	C
	ATOM	6764	O	HIS	E	303	-14.870	50.681	49.329	1.00	17.47	E	O
	ATOM	6765	N	ILE	E	304	-15.509	48.517	49.197	1.00	18.85	E	N
	ATOM	6766	CA	ILE	E	304	-16.258	48.520	50.445	1.00	18.33	E	C
45	ATOM	6767	CB	ILE	E	304	-17.730	48.973	50.217	1.00	17.38	E	C
	ATOM	6768	CG2	ILE	E	304	-18.335	48.207	49.061	1.00	17.05	E	C
	ATOM	6769	CG1	ILE	E	304	-18.554	48.739	51.485	1.00	18.17	E	C
	ATOM	6770	CD1	ILE	E	304	-19.743	49.652	51.618	1.00	17.20	E	C
	ATOM	6771	C	ILE	E	304	-16.245	47.125	51.073	1.00	19.05	E	C
50	ATOM	6772	O	ILE	E	304	-16.299	46.121	50.363	1.00	18.02	E	O
	ATOM	6773	N	HIS	E	305	-16.168	47.078	52.405	1.00	19.13	E	N
	ATOM	6774	CA	HIS	E	305	-16.143	45.816	53.141	1.00	16.35	E	C
	ATOM	6775	CB	HIS	E	305	-15.061	45.872	54.223	1.00	15.26	E	C
	ATOM	6776	CG	HIS	E	305	-13.705	46.264	53.708	1.00	13.86	E	C
55	ATOM	6777	CD2	HIS	E	305	-13.196	47.473	53.366	1.00	15.43	E	C
	ATOM	6778	ND1	HIS	E	305	-12.696	45.348	53.485	1.00	13.95	E	N
	ATOM	6779	CE1	HIS	E	305	-11.624	45.977	53.035	1.00	13.42	E	C
	ATOM	6780	NE2	HIS	E	305	-11.901	47.266	52.953	1.00	10.36	E	N
	ATOM	6781	C	HIS	E	305	-17.511	45.517	53.755	1.00	15.38	E	C
60	ATOM	6782	O	HIS	E	305	-18.098	46.363	54.426	1.00	17.02	E	O
	ATOM	6783	N	ALA	E	306	-18.011	44.307	53.507	1.00	14.32	E	N
	ATOM	6784	CA	ALA	E	306	-19.318	43.869	53.997	1.00	14.91	E	C
	ATOM	6785	CB	ALA	E	306	-19.538	42.390	53.656	1.00	11.35	E	C
	ATOM	6786	C	ALA	E	306	-19.518	44.094	55.496	1.00	15.76	E	C
65	ATOM	6787	O	ALA	E	306	-20.576	44.555	55.923	1.00	17.33	E	O
	ATOM	6788	N	ALA	E	307	-18.499	43.776	56.285	1.00	16.36	E	N
	ATOM	6789	CA	ALA	E	307	-18.564	43.930	57.736	1.00	17.77	E	C
	ATOM	6790	CB	ALA	E	307	-17.273	43.436	58.361	1.00	14.60	E	C

	ATOM	6791	C	ALA	E	307	-18.837	45.359	58.198	1.00	18.13	E	C
	ATOM	6792	O	ALA	E	307	-19.190	45.573	59.357	1.00	21.52	E	O
	ATOM	6793	N	ALA	E	308	-18.685	46.332	57.304	1.00	16.99	E	N
	ATOM	6794	CA	ALA	E	308	-18.909	47.723	57.665	1.00	16.51	E	C
5	ATOM	6795	CB	ALA	E	308	-17.583	48.423	57.820	1.00	16.22	E	C
	ATOM	6796	C	ALA	E	308	-19.769	48.478	56.668	1.00	17.76	E	C
	ATOM	6797	O	ALA	E	308	-19.788	49.708	56.675	1.00	16.53	E	O
	ATOM	6798	N	CYS	E	309	-20.497	47.752	55.828	1.00	19.58	E	N
	ATOM	6799	CA	CYS	E	309	-21.333	48.385	54.812	1.00	21.15	E	C
10	ATOM	6800	CB	CYS	E	309	-21.725	47.357	53.738	1.00	21.35	E	C
	ATOM	6801	SG	CYS	E	309	-22.855	46.030	54.256	1.00	21.97	E	S
	ATOM	6802	C	CYS	E	309	-22.581	49.089	55.344	1.00	22.27	E	C
	ATOM	6803	O	CYS	E	309	-23.254	49.814	54.604	1.00	22.71	E	O
15	ATOM	6804	N	MET	E	310	-22.892	48.889	56.620	1.00	21.83	E	N
	ATOM	6805	CA	MET	E	310	-24.070	49.522	57.216	1.00	20.40	E	C
	ATOM	6806	CB	MET	E	310	-24.798	48.526	58.128	1.00	19.88	E	C
	ATOM	6807	CG	MET	E	310	-24.093	48.273	59.467	1.00	18.45	E	C
	ATOM	6808	SD	MET	E	310	-22.549	47.317	59.337	1.00	18.35	E	S
	ATOM	6809	CE	MET	E	310	-23.113	45.876	58.423	1.00	17.05	E	C
20	ATOM	6810	C	MET	E	310	-23.693	50.770	58.017	1.00	20.67	E	C
	ATOM	6811	O	MET	E	310	-22.561	50.908	58.473	1.00	16.98	E	O
	ATOM	6812	N	ASN	E	311	-24.644	51.687	58.171	1.00	22.48	E	N
	ATOM	6813	CA	ASN	E	311	-24.394	52.894	58.946	1.00	25.68	E	C
	ATOM	6814	CB	ASN	E	311	-25.472	53.951	58.682	1.00	30.18	E	C
25	ATOM	6815	CG	ASN	E	311	-25.231	55.238	59.468	1.00	36.79	E	C
	ATOM	6816	OD1	ASN	E	311	-24.167	55.860	59.364	1.00	40.93	E	O
	ATOM	6817	ND2	ASN	E	311	-26.219	55.641	60.261	1.00	38.98	E	N
	ATOM	6818	C	ASN	E	311	-24.418	52.501	60.422	1.00	25.17	E	C
	ATOM	6819	O	ASN	E	311	-25.102	51.551	60.809	1.00	22.51	E	O
30	ATOM	6820	N	GLN	E	312	-23.668	53.224	61.245	1.00	24.85	E	N
	ATOM	6821	CA	GLN	E	312	-23.638	52.915	62.661	1.00	24.11	E	C
	ATOM	6822	CB	GLN	E	312	-22.659	53.841	63.376	1.00	22.49	E	C
	ATOM	6823	CG	GLN	E	312	-22.996	55.304	63.290	1.00	20.69	E	C
	ATOM	6824	CD	GLN	E	312	-22.016	56.153	64.078	1.00	21.34	E	C
35	ATOM	6825	OE1	GLN	E	312	-21.238	55.635	64.881	1.00	20.59	E	O
	ATOM	6826	NE2	GLN	E	312	-22.043	57.463	63.848	1.00	22.04	E	N
	ATOM	6827	C	GLN	E	312	-25.043	53.021	63.274	1.00	23.86	E	C
	ATOM	6828	O	GLN	E	312	-25.383	52.260	64.176	1.00	24.13	E	O
	ATOM	6829	N	LYS	E	313	-25.860	53.948	62.773	1.00	23.06	E	N
40	ATOM	6830	CA	LYS	E	313	-27.223	54.113	63.279	1.00	22.73	E	C
	ATOM	6831	CB	LYS	E	313	-27.824	55.429	62.792	1.00	23.93	E	C
	ATOM	6832	CG	LYS	E	313	-27.528	56.611	63.709	1.00	28.70	E	C
	ATOM	6833	CD	LYS	E	313	-28.408	57.805	63.387	1.00	33.40	E	C
	ATOM	6834	CE	LYS	E	313	-28.111	58.346	61.996	1.00	37.38	E	C
45	ATOM	6835	NZ	LYS	E	313	-29.191	59.266	61.530	1.00	39.40	E	N
	ATOM	6836	C	LYS	E	313	-28.101	52.956	62.828	1.00	22.35	E	C
	ATOM	6837	O	LYS	E	313	-29.096	52.620	63.479	1.00	22.30	E	O
	ATOM	6838	N	HIS	E	314	-27.725	52.358	61.703	1.00	22.39	E	N
	ATOM	6839	CA	HIS	E	314	-28.438	51.219	61.143	1.00	21.46	E	C
50	ATOM	6840	CB	HIS	E	314	-27.944	50.963	59.709	1.00	23.00	E	C
	ATOM	6841	CG	HIS	E	314	-28.615	49.815	59.018	1.00	24.47	E	C
	ATOM	6842	CD2	HIS	E	314	-28.390	49.254	57.807	1.00	24.48	E	C
	ATOM	6843	ND1	HIS	E	314	-29.649	49.097	59.585	1.00	26.28	E	N
	ATOM	6844	CE1	HIS	E	314	-30.030	48.144	58.751	1.00	26.15	E	C
55	ATOM	6845	NE2	HIS	E	314	-29.282	48.218	57.666	1.00	25.22	E	N
	ATOM	6846	C	HIS	E	314	-28.142	50.018	62.047	1.00	21.20	E	C
	ATOM	6847	O	HIS	E	314	-29.049	49.293	62.450	1.00	20.33	E	O
	ATOM	6848	N	LEU	E	315	-26.867	49.820	62.371	1.00	19.42	E	N
	ATOM	6849	CA	LEU	E	315	-26.475	48.719	63.241	1.00	20.26	E	C
60	ATOM	6850	CB	LEU	E	315	-24.953	48.664	63.378	1.00	18.95	E	C
	ATOM	6851	CG	LEU	E	315	-24.440	47.728	64.477	1.00	18.73	E	C
	ATOM	6852	CD1	LEU	E	315	-24.804	46.290	64.130	1.00	16.44	E	C
	ATOM	6853	CD2	LEU	E	315	-22.930	47.890	64.641	1.00	16.69	E	C
	ATOM	6854	C	LEU	E	315	-27.114	48.883	64.627	1.00	21.14	E	C
65	ATOM	6855	O	LEU	E	315	-27.630	47.921	65.201	1.00	21.30	E	O
	ATOM	6856	N	LEU	E	316	-27.081	50.101	65.159	1.00	20.77	E	N
	ATOM	6857	CA	LEU	E	316	-27.660	50.372	66.469	1.00	21.60	E	C
	ATOM	6858	CB	LEU	E	316	-27.492	51.850	66.825	1.00	20.52	E	C

	ATOM	6859	CG	LEU	E	316	-28.040	52.271	68.193	1.00	19.97	E	C
	ATOM	6860	CD1	LEU	E	316	-27.210	51.622	69.293	1.00	19.85	E	C
	ATOM	6861	CD2	LEU	E	316	-28.007	53.778	68.323	1.00	19.28	E	C
5	ATOM	6862	C	LEU	E	316	-29.142	50.011	66.467	1.00	22.94	E	C
	ATOM	6863	O	LEU	E	316	-29.654	49.373	67.386	1.00	24.11	E	O
	ATOM	6864	N	ARG	E	317	-29.827	50.431	65.416	1.00	24.18	E	N
	ATOM	6865	CA	ARG	E	317	-31.245	50.166	65.254	1.00	24.39	E	C
	ATOM	6866	CB	ARG	E	317	-31.714	50.777	63.932	1.00	28.44	E	C
10	ATOM	6867	CG	ARG	E	317	-33.212	50.874	63.757	1.00	32.01	E	C
	ATOM	6868	CD	ARG	E	317	-33.576	52.043	62.838	1.00	35.80	E	C
	ATOM	6869	NE	ARG	E	317	-32.897	51.980	61.540	1.00	38.43	E	N
	ATOM	6870	CZ	ARG	E	317	-32.098	52.933	61.064	1.00	39.63	E	C
	ATOM	6871	NH1	ARG	E	317	-31.872	54.029	61.780	1.00	40.59	E	N
	ATOM	6872	NH2	ARG	E	317	-31.529	52.799	59.871	1.00	40.43	E	N
15	ATOM	6873	C	ARG	E	317	-31.525	48.667	65.262	1.00	24.34	E	C
	ATOM	6874	O	ARG	E	317	-32.442	48.205	65.937	1.00	25.57	E	O
	ATOM	6875	N	PHE	E	318	-30.729	47.908	64.512	1.00	22.52	E	N
	ATOM	6876	CA	PHE	E	318	-30.917	46.469	64.416	1.00	21.53	E	C
20	ATOM	6877	CB	PHE	E	318	-30.041	45.882	63.310	1.00	20.31	E	C
	ATOM	6878	CG	PHE	E	318	-30.220	44.400	63.125	1.00	20.76	E	C
	ATOM	6879	CD1	PHE	E	318	-31.188	43.905	62.257	1.00	19.32	E	C
	ATOM	6880	CD2	PHE	E	318	-29.449	43.498	63.850	1.00	19.13	E	C
	ATOM	6881	CE1	PHE	E	318	-31.387	42.532	62.117	1.00	19.27	E	C
25	ATOM	6882	CE2	PHE	E	318	-29.642	42.127	63.716	1.00	19.64	E	C
	ATOM	6883	CZ	PHE	E	318	-30.614	41.644	62.849	1.00	18.64	E	C
	ATOM	6884	C	PHE	E	318	-30.632	45.731	65.714	1.00	21.99	E	C
	ATOM	6885	O	PHE	E	318	-31.279	44.724	66.025	1.00	21.87	E	O
	ATOM	6886	N	ILE	E	319	-29.653	46.211	66.466	1.00	20.51	E	N
30	ATOM	6887	CA	ILE	E	319	-29.326	45.555	67.718	1.00	20.61	E	C
	ATOM	6888	CB	ILE	E	319	-28.128	46.224	68.397	1.00	18.90	E	C
	ATOM	6889	CG2	ILE	E	319	-28.036	45.786	69.854	1.00	18.99	E	C
	ATOM	6890	CG1	ILE	E	319	-26.851	45.848	67.654	1.00	17.41	E	C
	ATOM	6891	CD1	ILE	E	319	-25.656	46.624	68.103	1.00	17.36	E	C
35	ATOM	6892	C	ILE	E	319	-30.535	45.607	68.644	1.00	22.02	E	C
	ATOM	6893	O	ILE	E	319	-30.929	44.593	69.220	1.00	24.19	E	O
	ATOM	6894	N	LYS	E	320	-31.136	46.787	68.768	1.00	22.40	E	N
	ATOM	6895	CA	LYS	E	320	-32.295	46.951	69.630	1.00	24.49	E	C
	ATOM	6896	CB	LYS	E	320	-32.695	48.419	69.680	1.00	22.13	E	C
40	ATOM	6897	CG	LYS	E	320	-31.586	49.312	70.196	1.00	21.91	E	C
	ATOM	6898	CD	LYS	E	320	-32.109	50.683	70.569	1.00	21.46	E	C
	ATOM	6899	CE	LYS	E	320	-31.051	51.486	71.301	1.00	24.14	E	C
	ATOM	6900	NZ	LYS	E	320	-31.306	52.946	71.182	1.00	25.97	E	N
	ATOM	6901	C	LYS	E	320	-33.476	46.093	69.181	1.00	27.01	E	C
45	ATOM	6902	O	LYS	E	320	-34.166	45.492	70.007	1.00	28.38	E	O
	ATOM	6903	N	LYS	E	321	-33.702	46.025	67.875	1.00	27.88	E	N
	ATOM	6904	CA	LYS	E	321	-34.800	45.229	67.337	1.00	29.54	E	C
	ATOM	6905	CB	LYS	E	321	-34.939	45.467	65.829	1.00	30.65	E	C
	ATOM	6906	CG	LYS	E	321	-36.259	44.993	65.247	1.00	34.11	E	C
50	ATOM	6907	CD	LYS	E	321	-37.441	45.703	65.901	1.00	38.23	E	C
	ATOM	6908	CE	LYS	E	321	-38.780	45.224	65.340	1.00	39.86	E	C
	ATOM	6909	NZ	LYS	E	321	-38.724	43.813	64.859	1.00	42.69	E	N
	ATOM	6910	C	LYS	E	321	-34.584	43.746	67.602	1.00	28.35	E	C
	ATOM	6911	O	LYS	E	321	-35.525	43.021	67.908	1.00	28.97	E	O
55	ATOM	6912	N	SER	E	322	-33.341	43.296	67.481	1.00	28.09	E	N
	ATOM	6913	CA	SER	E	322	-33.021	41.894	67.711	1.00	28.95	E	C
	ATOM	6914	CB	SER	E	322	-31.544	41.632	67.402	1.00	27.52	E	C
	ATOM	6915	OG	SER	E	322	-30.704	42.202	68.389	1.00	28.01	E	O
	ATOM	6916	C	SER	E	322	-33.331	41.488	69.149	1.00	30.08	E	C
60	ATOM	6917	O	SER	E	322	-33.706	40.346	69.414	1.00	29.49	E	O
	ATOM	6918	N	TYR	E	323	-33.174	42.427	70.076	1.00	30.70	E	N
	ATOM	6919	CA	TYR	E	323	-33.441	42.153	71.479	1.00	33.46	E	C
	ATOM	6920	CB	TYR	E	323	-32.806	43.228	72.360	1.00	34.72	E	C
	ATOM	6921	CG	TYR	E	323	-33.067	43.030	73.834	1.00	35.80	E	C
	ATOM	6922	CD1	TYR	E	323	-34.142	43.657	74.458	1.00	37.19	E	C
65	ATOM	6923	CE1	TYR	E	323	-34.391	43.477	75.810	1.00	39.16	E	C
	ATOM	6924	CD2	TYR	E	323	-32.241	42.214	74.604	1.00	36.95	E	C
	ATOM	6925	CE2	TYR	E	323	-32.479	42.027	75.958	1.00	38.82	E	C
	ATOM	6926	CZ	TYR	E	323	-33.556	42.662	76.556	1.00	39.95	E	C

	ATOM	6927	OH	TYR	E	323	-33.800	42.487	77.902	1.00	43.16	E	O
	ATOM	6928	C	TYR	E	323	-34.940	42.099	71.743	1.00	33.95	E	C
	ATOM	6929	O	TYR	E	323	-35.424	41.247	72.489	1.00	35.15	E	O
	ATOM	6930	N	GLN	E	324	-35.673	43.014	71.125	1.00	33.87	E	N
5	ATOM	6931	CA	GLN	E	324	-37.111	43.067	71.295	1.00	34.97	E	C
	ATOM	6932	CB	GLN	E	324	-37.686	44.243	70.499	1.00	37.89	E	C
	ATOM	6933	CG	GLN	E	324	-39.192	44.178	70.271	1.00	43.00	E	C
	ATOM	6934	CD	GLN	E	324	-39.630	44.946	69.032	1.00	47.13	E	C
10	ATOM	6935	OE1	GLN	E	324	-39.172	46.069	68.782	1.00	48.15	E	O
	ATOM	6936	NE2	GLN	E	324	-40.521	44.342	68.247	1.00	47.61	E	N
	ATOM	6937	C	GLN	E	324	-37.766	41.767	70.844	1.00	33.84	E	C
	ATOM	6938	O	GLN	E	324	-38.765	41.343	71.418	1.00	34.75	E	O
	ATOM	6939	N	VAL	E	325	-37.199	41.123	69.829	1.00	32.97	E	N
	ATOM	6940	CA	VAL	E	325	-37.789	39.894	69.319	1.00	31.90	E	C
15	ATOM	6941	CB	VAL	E	325	-38.017	39.975	67.777	1.00	31.62	E	C
	ATOM	6942	CG1	VAL	E	325	-38.382	41.391	67.370	1.00	28.69	E	C
	ATOM	6943	CG2	VAL	E	325	-36.785	39.500	67.041	1.00	30.34	E	C
	ATOM	6944	C	VAL	E	325	-37.048	38.593	69.625	1.00	32.17	E	C
	ATOM	6945	O	VAL	E	325	-37.647	37.517	69.567	1.00	32.71	E	O
20	ATOM	6946	N	ASP	E	326	-35.763	38.674	69.956	1.00	31.33	E	N
	ATOM	6947	CA	ASP	E	326	-34.995	37.460	70.235	1.00	31.04	E	C
	ATOM	6948	CB	ASP	E	326	-33.920	37.258	69.164	1.00	31.58	E	C
	ATOM	6949	CG	ASP	E	326	-34.482	36.733	67.856	1.00	33.65	E	C
	ATOM	6950	OD1	ASP	E	326	-35.639	36.254	67.849	1.00	35.37	E	O
25	ATOM	6951	OD2	ASP	E	326	-33.763	36.800	66.831	1.00	34.13	E	O
	ATOM	6952	C	ASP	E	326	-34.323	37.449	71.601	1.00	31.16	E	C
	ATOM	6953	O	ASP	E	326	-33.345	36.726	71.799	1.00	28.96	E	O
	ATOM	6954	N	ALA	E	327	-34.840	38.242	72.537	1.00	31.63	E	N
	ATOM	6955	CA	ALA	E	327	-34.265	38.319	73.884	1.00	32.11	E	C
30	ATOM	6956	CB	ALA	E	327	-35.155	39.177	74.782	1.00	30.16	E	C
	ATOM	6957	C	ALA	E	327	-34.024	36.955	74.543	1.00	32.51	E	C
	ATOM	6958	O	ALA	E	327	-33.063	36.782	75.294	1.00	31.82	E	O
	ATOM	6959	N	ASP	E	328	-34.889	35.986	74.255	1.00	33.26	E	N
	ATOM	6960	CA	ASP	E	328	-34.758	34.662	74.851	1.00	34.50	E	C
35	ATOM	6961	CB	ASP	E	328	-36.098	34.226	75.453	1.00	35.29	E	C
	ATOM	6962	CG	ASP	E	328	-36.633	35.224	76.469	1.00	37.28	E	C
	ATOM	6963	OD1	ASP	E	328	-35.904	35.554	77.435	1.00	36.86	E	O
	ATOM	6964	OD2	ASP	E	328	-37.784	35.680	76.297	1.00	38.42	E	O
	ATOM	6965	C	ASP	E	328	-34.254	33.588	73.896	1.00	34.04	E	C
40	ATOM	6966	O	ASP	E	328	-34.306	32.401	74.215	1.00	34.88	E	O
	ATOM	6967	N	ARG	E	329	-33.765	34.002	72.731	1.00	32.61	E	N
	ATOM	6968	CA	ARG	E	329	-33.242	33.063	71.745	1.00	30.85	E	C
	ATOM	6969	CB	ARG	E	329	-33.212	33.715	70.357	1.00	32.54	E	C
	ATOM	6970	CG	ARG	E	329	-33.333	32.740	69.188	1.00	34.10	E	C
45	ATOM	6971	CD	ARG	E	329	-32.149	32.833	68.223	1.00	34.52	E	C
	ATOM	6972	NE	ARG	E	329	-32.453	33.668	67.060	1.00	36.95	E	N
	ATOM	6973	CZ	ARG	E	329	-32.084	33.400	65.807	1.00	36.68	E	C
	ATOM	6974	NH1	ARG	E	329	-31.388	32.309	65.517	1.00	36.30	E	N
	ATOM	6975	NH2	ARG	E	329	-32.406	34.238	64.836	1.00	35.83	E	N
50	ATOM	6976	C	ARG	E	329	-31.822	32.687	72.151	1.00	30.21	E	C
	ATOM	6977	O	ARG	E	329	-31.028	33.563	72.501	1.00	28.42	E	O
	ATOM	6978	N	VAL	E	330	-31.501	31.394	72.127	1.00	30.17	E	N
	ATOM	6979	CA	VAL	E	330	-30.150	30.979	72.474	1.00	30.68	E	C
	ATOM	6980	CB	VAL	E	330	-30.037	29.464	72.652	1.00	30.34	E	C
55	ATOM	6981	CG1	VAL	E	330	-28.589	29.087	72.952	1.00	28.59	E	C
	ATOM	6982	CG2	VAL	E	330	-30.944	29.014	73.784	1.00	31.06	E	C
	ATOM	6983	C	VAL	E	330	-29.305	31.418	71.293	1.00	32.69	E	C
	ATOM	6984	O	VAL	E	330	-29.493	30.946	70.171	1.00	32.53	E	O
	ATOM	6985	N	VAL	E	331	-28.367	32.319	71.549	1.00	34.29	E	N
60	ATOM	6986	CA	VAL	E	331	-27.550	32.867	70.483	1.00	35.22	E	C
	ATOM	6987	CB	VAL	E	331	-27.950	34.341	70.279	1.00	35.08	E	C
	ATOM	6988	CG1	VAL	E	331	-27.149	35.242	71.206	1.00	32.75	E	C
	ATOM	6989	CG2	VAL	E	331	-27.776	34.725	68.846	1.00	36.35	E	C
	ATOM	6990	C	VAL	E	331	-26.040	32.759	70.685	1.00	37.71	E	C
65	ATOM	6991	O	VAL	E	331	-25.264	32.916	69.742	1.00	36.80	E	O
	ATOM	6992	N	TYR	E	332	-25.629	32.469	71.912	1.00	40.75	E	N
	ATOM	6993	CA	TYR	E	332	-24.212	32.371	72.246	1.00	42.68	E	C
	ATOM	6994	CB	TYR	E	332	-23.842	33.565	73.128	1.00	43.04	E	C

	ATOM	6995	CG	TYR	E	332	-22.403	33.649	73.581	1.00	43.44	E	C
	ATOM	6996	CD1	TYR	E	332	-21.435	34.259	72.783	1.00	43.01	E	C
	ATOM	6997	CE1	TYR	E	332	-20.126	34.434	73.239	1.00	43.66	E	C
	ATOM	6998	CD2	TYR	E	332	-22.027	33.203	74.852	1.00	44.97	E	C
5	ATOM	6999	CE2	TYR	E	332	-20.720	33.372	75.322	1.00	45.05	E	C
	ATOM	7000	CZ	TYR	E	332	-19.777	33.991	74.512	1.00	45.54	E	C
	ATOM	7001	OH	TYR	E	332	-18.498	34.187	74.985	1.00	46.05	E	O
	ATOM	7002	C	TYR	E	332	-23.948	31.061	72.972	1.00	45.22	E	C
10	ATOM	7003	O	TYR	E	332	-24.857	30.480	73.568	1.00	45.14	E	O
	ATOM	7004	N	SER	E	333	-22.705	30.593	72.921	1.00	47.82	E	N
	ATOM	7005	CA	SER	E	333	-22.358	29.343	73.581	1.00	51.69	E	C
	ATOM	7006	CB	SER	E	333	-21.900	28.316	72.542	1.00	49.44	E	C
	ATOM	7007	OG	SER	E	333	-21.489	27.112	73.169	1.00	49.78	E	O
15	ATOM	7008	C	SER	E	333	-21.286	29.480	74.668	1.00	55.46	E	C
	ATOM	7009	O	SER	E	333	-20.210	30.044	74.436	1.00	55.91	E	O
	ATOM	7010	N	THR	E	334	-21.604	28.965	75.858	1.00	58.80	E	N
	ATOM	7011	CA	THR	E	334	-20.686	28.972	76.999	1.00	60.43	E	C
	ATOM	7012	CB	THR	E	334	-21.070	30.052	78.056	1.00	60.66	E	C
20	ATOM	7013	OG1	THR	E	334	-20.039	31.048	78.112	1.00	60.32	E	O
	ATOM	7014	CG2	THR	E	334	-21.236	29.428	79.451	1.00	60.47	E	C
	ATOM	7015	C	THR	E	334	-20.762	27.578	77.619	1.00	61.66	E	C
	ATOM	7016	O	THR	E	334	-21.826	26.951	77.613	1.00	60.95	E	O
	ATOM	7017	N	LYS	E	335	-19.635	27.104	78.148	1.00	62.49	E	N
25	ATOM	7018	CA	LYS	E	335	-19.552	25.772	78.742	1.00	63.25	E	C
	ATOM	7019	CB	LYS	E	335	-18.294	25.650	79.604	1.00	62.07	E	C
	ATOM	7020	CG	LYS	E	335	-17.639	24.269	79.532	1.00	62.22	E	C
	ATOM	7021	CD	LYS	E	335	-18.578	23.150	79.998	1.00	61.33	E	C
	ATOM	7022	CE	LYS	E	335	-18.672	22.025	78.967	1.00	61.29	E	C
30	ATOM	7023	NZ	LYS	E	335	-18.553	20.667	79.585	1.00	60.82	E	N
	ATOM	7024	C	LYS	E	335	-20.757	25.314	79.561	1.00	63.82	E	C
	ATOM	7025	O	LYS	E	335	-21.580	24.527	79.083	1.00	64.52	E	O
	ATOM	7026	N	GLU	E	336	-20.852	25.790	80.799	1.00	64.65	E	N
	ATOM	7027	CA	GLU	E	336	-21.949	25.389	81.676	1.00	65.48	E	C
35	ATOM	7028	CB	GLU	E	336	-21.779	26.020	83.065	1.00	66.97	E	C
	ATOM	7029	CG	GLU	E	336	-21.735	25.008	84.219	1.00	68.62	E	C
	ATOM	7030	CD	GLU	E	336	-21.830	23.558	83.753	1.00	70.00	E	C
	ATOM	7031	OE1	GLU	E	336	-22.965	23.066	83.554	1.00	70.67	E	O
	ATOM	7032	OE2	GLU	E	336	-20.768	22.913	83.588	1.00	70.24	E	O
40	ATOM	7033	C	GLU	E	336	-23.326	25.729	81.115	1.00	64.21	E	C
	ATOM	7034	O	GLU	E	336	-24.331	25.137	81.524	1.00	64.55	E	O
	ATOM	7035	N	LYS	E	337	-23.375	26.672	80.177	1.00	62.76	E	N
	ATOM	7036	CA	LYS	E	337	-24.646	27.062	79.580	1.00	59.78	E	C
	ATOM	7037	CB	LYS	E	337	-25.544	27.695	80.654	1.00	60.45	E	C
45	ATOM	7038	CG	LYS	E	337	-26.872	28.231	80.142	1.00	59.74	E	C
	ATOM	7039	CD	LYS	E	337	-27.561	29.092	81.195	1.00	60.65	E	C
	ATOM	7040	CE	LYS	E	337	-28.787	29.806	80.615	1.00	61.10	E	C
	ATOM	7041	NZ	LYS	E	337	-30.079	29.425	81.267	1.00	60.48	E	N
	ATOM	7042	C	LYS	E	337	-24.491	28.028	78.404	1.00	58.38	E	C
50	ATOM	7043	O	LYS	E	337	-23.730	28.992	78.475	1.00	58.62	E	O
	ATOM	7044	N	ASN	E	338	-25.202	27.750	77.315	1.00	54.87	E	N
	ATOM	7045	CA	ASN	E	338	-25.183	28.625	76.153	1.00	50.53	E	C
	ATOM	7046	CB	ASN	E	338	-25.738	27.899	74.928	1.00	52.17	E	C
	ATOM	7047	CG	ASN	E	338	-25.156	26.508	74.761	1.00	53.01	E	C
55	ATOM	7048	OD1	ASN	E	338	-23.939	26.339	74.649	1.00	54.24	E	O
	ATOM	7049	ND2	ASN	E	338	-26.027	25.501	74.742	1.00	54.13	E	N
	ATOM	7050	C	ASN	E	338	-26.131	29.738	76.579	1.00	47.71	E	C
	ATOM	7051	O	ASN	E	338	-27.124	29.470	77.247	1.00	48.30	E	O
	ATOM	7052	N	LEU	E	339	-25.842	30.979	76.208	1.00	43.03	E	N
60	ATOM	7053	CA	LEU	E	339	-26.694	32.088	76.624	1.00	39.70	E	C
	ATOM	7054	CB	LEU	E	339	-25.831	33.274	77.058	1.00	40.17	E	C
	ATOM	7055	CG	LEU	E	339	-24.366	32.980	77.374	1.00	39.35	E	C
	ATOM	7056	CD1	LEU	E	339	-23.619	34.287	77.565	1.00	40.22	E	C
	ATOM	7057	CD2	LEU	E	339	-24.274	32.123	78.628	1.00	39.99	E	C
65	ATOM	7058	C	LEU	E	339	-27.695	32.583	75.604	1.00	36.38	E	C
	ATOM	7059	O	LEU	E	339	-27.473	32.481	74.402	1.00	35.28	E	O
	ATOM	7060	N	THR	E	340	-28.807	33.118	76.101	1.00	33.97	E	N
	ATOM	7061	CA	THR	E	340	-29.818	33.689	75.232	1.00	32.76	E	C
	ATOM	7062	CB	THR	E	340	-31.189	33.805	75.923	1.00	31.73	E	C

	ATOM	7063	OG1	THR	E	340	-31.090	34.704	77.029	1.00	31.23	E	O
	ATOM	7064	CG2	THR	E	340	-31.663	32.451	76.403	1.00	31.51	E	C
	ATOM	7065	C	THR	E	340	-29.296	35.095	74.956	1.00	32.75	E	C
5	ATOM	7066	O	THR	E	340	-28.319	35.524	75.576	1.00	33.31	E	O
	ATOM	7067	N	LEU	E	341	-29.924	35.806	74.028	1.00	31.93	E	N
	ATOM	7068	CA	LEU	E	341	-29.492	37.161	73.713	1.00	30.75	E	C
	ATOM	7069	CB	LEU	E	341	-30.441	37.797	72.685	1.00	29.70	E	C
	ATOM	7070	CG	LEU	E	341	-30.096	39.201	72.165	1.00	28.41	E	C
10	ATOM	7071	CD1	LEU	E	341	-28.692	39.207	71.594	1.00	29.35	E	C
	ATOM	7072	CD2	LEU	E	341	-31.093	39.623	71.104	1.00	27.11	E	C
	ATOM	7073	C	LEU	E	341	-29.473	37.994	74.996	1.00	31.31	E	C
	ATOM	7074	O	LEU	E	341	-28.494	38.687	75.289	1.00	29.95	E	O
	ATOM	7075	N	LYS	E	342	-30.563	37.912	75.758	1.00	31.47	E	N
15	ATOM	7076	CA	LYS	E	342	-30.698	38.648	77.009	1.00	31.04	E	C
	ATOM	7077	CB	LYS	E	342	-32.029	38.297	77.678	1.00	32.77	E	C
	ATOM	7078	CG	LYS	E	342	-32.351	39.139	78.899	1.00	35.42	E	C
	ATOM	7079	CD	LYS	E	342	-33.728	38.797	79.451	1.00	38.72	E	C
	ATOM	7080	CE	LYS	E	342	-34.568	40.048	79.703	1.00	40.80	E	C
20	ATOM	7081	NZ	LYS	E	342	-35.782	40.108	78.831	1.00	42.61	E	N
	ATOM	7082	C	LYS	E	342	-29.551	38.340	77.966	1.00	31.01	E	C
	ATOM	7083	O	LYS	E	342	-28.967	39.247	78.553	1.00	31.24	E	O
	ATOM	7084	N	GLN	E	343	-29.231	37.059	78.115	1.00	29.72	E	N
	ATOM	7085	CA	GLN	E	343	-28.162	36.638	79.009	1.00	31.23	E	C
25	ATOM	7086	CB	GLN	E	343	-28.097	35.116	79.090	1.00	32.87	E	C
	ATOM	7087	CG	GLN	E	343	-29.250	34.479	79.826	1.00	35.76	E	C
	ATOM	7088	CD	GLN	E	343	-29.264	32.976	79.661	1.00	36.76	E	C
	ATOM	7089	OE1	GLN	E	343	-28.243	32.370	79.357	1.00	36.75	E	O
	ATOM	7090	NE2	GLN	E	343	-30.426	32.367	79.856	1.00	39.29	E	N
30	ATOM	7091	C	GLN	E	343	-26.808	37.153	78.572	1.00	31.32	E	C
	ATOM	7092	O	GLN	E	343	-25.966	37.491	79.405	1.00	31.88	E	O
	ATOM	7093	N	LEU	E	344	-26.582	37.188	77.264	1.00	30.72	E	N
	ATOM	7094	CA	LEU	E	344	-25.309	37.670	76.740	1.00	30.29	E	C
	ATOM	7095	CB	LEU	E	344	-25.240	37.478	75.220	1.00	28.74	E	C
35	ATOM	7096	CG	LEU	E	344	-24.002	38.064	74.534	1.00	27.20	E	C
	ATOM	7097	CD1	LEU	E	344	-22.743	37.431	75.093	1.00	26.36	E	C
	ATOM	7098	CD2	LEU	E	344	-24.095	37.828	73.039	1.00	27.87	E	C
	ATOM	7099	C	LEU	E	344	-25.127	39.144	77.090	1.00	29.97	E	C
	ATOM	7100	O	LEU	E	344	-24.044	39.560	77.499	1.00	29.68	E	O
40	ATOM	7101	N	PHE	E	345	-26.186	39.933	76.933	1.00	29.51	E	N
	ATOM	7102	CA	PHE	E	345	-26.107	41.349	77.259	1.00	30.89	E	C
	ATOM	7103	CB	PHE	E	345	-27.372	42.075	76.795	1.00	30.24	E	C
	ATOM	7104	CG	PHE	E	345	-27.344	42.452	75.337	1.00	32.40	E	C
	ATOM	7105	CD1	PHE	E	345	-26.405	43.363	74.859	1.00	31.76	E	C
45	ATOM	7106	CD2	PHE	E	345	-28.232	41.872	74.433	1.00	31.62	E	C
	ATOM	7107	CE1	PHE	E	345	-26.350	43.690	73.501	1.00	29.85	E	C
	ATOM	7108	CE2	PHE	E	345	-28.179	42.194	73.077	1.00	29.28	E	C
	ATOM	7109	CZ	PHE	E	345	-27.238	43.103	72.612	1.00	26.75	E	C
	ATOM	7110	C	PHE	E	345	-25.907	41.522	78.763	1.00	32.90	E	C
50	ATOM	7111	O	PHE	E	345	-25.349	42.530	79.216	1.00	32.58	E	O
	ATOM	7112	N	ASP	E	346	-26.362	40.529	79.528	1.00	34.64	E	N
	ATOM	7113	CA	ASP	E	346	-26.218	40.540	80.982	1.00	35.56	E	C
	ATOM	7114	CB	ASP	E	346	-27.063	39.434	81.611	1.00	38.22	E	C
	ATOM	7115	CG	ASP	E	346	-28.440	39.911	82.005	1.00	41.23	E	C
55	ATOM	7116	OD1	ASP	E	346	-28.734	41.109	81.806	1.00	43.63	E	O
	ATOM	7117	OD2	ASP	E	346	-29.231	39.087	82.512	1.00	43.98	E	O
	ATOM	7118	C	ASP	E	346	-24.755	40.307	81.322	1.00	34.46	E	C
	ATOM	7119	O	ASP	E	346	-24.179	41.005	82.150	1.00	33.16	E	O
	ATOM	7120	N	LYS	E	347	-24.166	39.313	80.670	1.00	33.43	E	N
60	ATOM	7121	CA	LYS	E	347	-22.768	38.981	80.876	1.00	33.89	E	C
	ATOM	7122	CB	LYS	E	347	-22.388	37.767	80.026	1.00	35.82	E	C
	ATOM	7123	CG	LYS	E	347	-20.985	37.241	80.271	1.00	39.65	E	C
	ATOM	7124	CD	LYS	E	347	-20.134	37.321	79.014	1.00	42.17	E	C
	ATOM	7125	CE	LYS	E	347	-20.083	35.985	78.295	1.00	43.49	E	C
65	ATOM	7126	NZ	LYS	E	347	-18.758	35.328	78.440	1.00	46.20	E	N
	ATOM	7127	C	LYS	E	347	-21.925	40.175	80.463	1.00	35.43	E	C
	ATOM	7128	O	LYS	E	347	-20.821	40.374	80.964	1.00	36.21	E	O
	ATOM	7129	N	LEU	E	348	-22.455	40.977	79.546	1.00	35.74	E	N
	ATOM	7130	CA	LEU	E	348	-21.744	42.152	79.058	1.00	35.12	E	C

	ATOM	7131	CB	LEU	E	348	-22.106	42.422	77.596	1.00	34.19	E	C
	ATOM	7132	CG	LEU	E	348	-21.610	41.386	76.582	1.00	33.36	E	C
	ATOM	7133	CD1	LEU	E	348	-22.104	41.760	75.196	1.00	33.00	E	C
	ATOM	7134	CD2	LEU	E	348	-20.091	41.314	76.609	1.00	29.87	E	C
5	ATOM	7135	C	LEU	E	348	-22.065	43.377	79.896	1.00	36.52	E	C
	ATOM	7136	O	LEU	E	348	-21.387	44.397	79.796	1.00	36.28	E	O
	ATOM	7137	N	LYS	E	349	-23.109	43.272	80.713	1.00	37.94	E	N
	ATOM	7138	CA	LYS	E	349	-23.525	44.365	81.585	1.00	38.99	E	C
10	ATOM	7139	CB	LYS	E	349	-22.324	44.833	82.428	1.00	41.12	E	C
	ATOM	7140	CG	LYS	E	349	-22.519	46.137	83.201	1.00	46.53	E	C
	ATOM	7141	CD	LYS	E	349	-21.585	47.243	82.683	1.00	49.62	E	C
	ATOM	7142	CE	LYS	E	349	-22.273	48.612	82.667	1.00	51.48	E	C
	ATOM	7143	NZ	LYS	E	349	-22.844	48.988	83.999	1.00	53.58	E	N
	ATOM	7144	C	LYS	E	349	-24.131	45.533	80.799	1.00	38.05	E	C
15	ATOM	7145	O	LYS	E	349	-23.760	46.691	80.994	1.00	37.15	E	O
	ATOM	7146	N	LEU	E	350	-25.067	45.233	79.901	1.00	36.29	E	N
	ATOM	7147	CA	LEU	E	350	-25.705	46.295	79.131	1.00	34.93	E	C
	ATOM	7148	CB	LEU	E	350	-24.953	46.576	77.822	1.00	35.24	E	C
20	ATOM	7149	CG	LEU	E	350	-23.522	46.102	77.584	1.00	35.58	E	C
	ATOM	7150	CD1	LEU	E	350	-23.406	45.507	76.187	1.00	35.10	E	C
	ATOM	7151	CD2	LEU	E	350	-22.572	47.279	77.739	1.00	34.88	E	C
	ATOM	7152	C	LEU	E	350	-27.136	45.979	78.770	1.00	34.35	E	C
	ATOM	7153	O	LEU	E	350	-27.554	44.823	78.779	1.00	34.68	E	O
25	ATOM	7154	NA	HIS	E	351	-27.891	47.026	78.468	1.00	34.55	E	N
	ATOM	7155	CA	HIS	E	351	-29.258	46.853	78.021	1.00	36.34	E	C
	ATOM	7156	CB	HIS	E	351	-30.268	47.480	78.972	1.00	37.42	E	C
	ATOM	7157	CG	HIS	E	351	-31.676	47.072	78.673	1.00	40.56	E	C
	ATOM	7158	CD2	HIS	E	351	-32.525	47.460	77.692	1.00	41.30	E	C
	ATOM	7159	ND1	HIS	E	351	-32.329	46.080	79.374	1.00	40.99	E	N
30	ATOM	7160	CE1	HIS	E	351	-33.519	45.876	78.839	1.00	41.26	E	C
	ATOM	7161	NE2	HIS	E	351	-33.663	46.701	77.817	1.00	41.85	E	N
	ATOM	7162	C	HIS	E	351	-29.346	47.529	76.660	1.00	35.16	E	C
	ATOM	7163	O	HIS	E	351	-29.235	48.747	76.553	1.00	34.85	E	O
35	ATOM	7164	N	PRO	E	352	-29.530	46.734	75.601	1.00	34.77	E	N
	ATOM	7165	CD	PRO	E	352	-29.660	45.269	75.645	1.00	34.15	E	C
	ATOM	7166	CA	PRO	E	352	-29.626	47.251	74.235	1.00	35.00	E	C
	ATOM	7167	CB	PRO	E	352	-30.322	46.124	73.460	1.00	35.61	E	C
	ATOM	7168	CG	PRO	E	352	-30.457	44.966	74.426	1.00	35.38	E	C
40	ATOM	7169	C	PRO	E	352	-30.371	48.576	74.105	1.00	34.84	E	C
	ATOM	7170	O	PRO	E	352	-29.978	49.440	73.319	1.00	34.88	E	O
	ATOM	7171	N	TYR	E	353	-31.433	48.743	74.889	1.00	33.28	E	N
	ATOM	7172	CA	TYR	E	353	-32.235	49.959	74.815	1.00	31.96	E	C
	ATOM	7173	CB	TYR	E	353	-33.568	49.741	75.532	1.00	33.06	E	C
45	ATOM	7174	CG	TYR	E	353	-34.431	48.678	74.877	1.00	34.89	E	C
	ATOM	7175	CD1	TYR	E	353	-34.078	48.125	73.638	1.00	35.70	E	C
	ATOM	7176	CE1	TYR	E	353	-34.855	47.137	73.037	1.00	35.51	E	C
	ATOM	7177	CD2	TYR	E	353	-35.589	48.212	75.497	1.00	35.31	E	C
	ATOM	7178	CE2	TYR	E	353	-36.378	47.219	74.902	1.00	36.12	E	C
	ATOM	7179	CZ	TYR	E	353	-36.004	46.686	73.673	1.00	37.80	E	C
50	ATOM	7180	OH	TYR	E	353	-36.775	45.705	73.084	1.00	38.26	E	O
	ATOM	7181	C	TYR	E	353	-31.562	51.226	75.321	1.00	30.43	E	C
	ATOM	7182	O	TYR	E	353	-31.996	52.331	74.987	1.00	30.48	E	O
	ATOM	7183	N	ASP	E	354	-30.502	51.075	76.112	1.00	30.09	E	N
	ATOM	7184	CA	ASP	E	354	-29.765	52.233	76.633	1.00	28.48	E	C
55	ATOM	7185	CB	ASP	E	354	-29.164	51.925	78.005	1.00	31.52	E	C
	ATOM	7186	CG	ASP	E	354	-30.214	51.565	79.036	1.00	35.30	E	C
	ATOM	7187	OD1	ASP	E	354	-31.341	52.100	78.947	1.00	35.33	E	O
	ATOM	7188	OD2	ASP	E	354	-29.911	50.746	79.932	1.00	35.95	E	O
	ATOM	7189	C	ASP	E	354	-28.639	52.614	75.685	1.00	25.42	E	C
60	ATOM	7190	O	ASP	E	354	-28.020	53.666	75.832	1.00	25.22	E	O
	ATOM	7191	N	LEU	E	355	-28.378	51.744	74.714	1.00	24.15	E	N
	ATOM	7192	CA	LEU	E	355	-27.322	51.977	73.747	1.00	21.69	E	C
	ATOM	7193	CB	LEU	E	355	-27.221	50.799	72.785	1.00	20.89	E	C
	ATOM	7194	CG	LEU	E	355	-26.515	49.602	73.430	1.00	21.67	E	C
65	ATOM	7195	CD1	LEU	E	355	-26.525	48.416	72.482	1.00	21.23	E	C
	ATOM	7196	CD2	LEU	E	355	-25.088	49.987	73.800	1.00	19.40	E	C
	ATOM	7197	C	LEU	E	355	-27.534	53.270	72.990	1.00	20.82	E	C
	ATOM	7198	O	LEU	E	355	-28.656	53.701	72.758	1.00	20.07	E	O

	ATOM	7199	N	THR	E	356	-26.423	53.878	72.611	1.00	20.86	E	N
	ATOM	7200	CA	THR	E	356	-26.403	55.144	71.905	1.00	20.58	E	C
	ATOM	7201	CB	THR	E	356	-26.078	56.249	72.937	1.00	21.84	E	C
	ATOM	7202	OG1	THR	E	356	-27.298	56.750	73.494	1.00	24.77	E	O
5	ATOM	7203	CG2	THR	E	356	-25.307	57.370	72.331	1.00	23.56	E	C
	ATOM	7204	C	THR	E	356	-25.282	54.994	70.871	1.00	20.22	E	C
	ATOM	7205	O	THR	E	356	-24.537	54.014	70.933	1.00	20.80	E	O
	ATOM	7206	N	VAL	E	357	-25.155	55.904	69.905	1.00	19.80	E	N
10	ATOM	7207	CA	VAL	E	357	-24.040	55.757	68.967	1.00	19.24	E	C
	ATOM	7208	CB	VAL	E	357	-24.127	56.725	67.727	1.00	20.26	E	C
	ATOM	7209	CG1	VAL	E	357	-25.453	56.523	66.997	1.00	18.46	E	C
	ATOM	7210	CG2	VAL	E	357	-23.952	58.169	68.149	1.00	21.79	E	C
	ATOM	7211	C	VAL	E	357	-22.755	56.024	69.763	1.00	17.55	E	C
	ATOM	7212	O	VAL	E	357	-21.686	55.526	69.416	1.00	16.77	E	O
15	ATOM	7213	N	ASP	E	358	-22.877	56.791	70.850	1.00	17.43	E	N
	ATOM	7214	CA	ASP	E	358	-21.737	57.095	71.716	1.00	17.86	E	C
	ATOM	7215	CB	ASP	E	358	-22.128	58.093	72.804	1.00	21.13	E	C
	ATOM	7216	CG	ASP	E	358	-22.344	59.494	72.272	1.00	24.43	E	C
	ATOM	7217	OD1	ASP	E	358	-21.720	59.858	71.245	1.00	24.32	E	O
20	ATOM	7218	OD2	ASP	E	358	-23.144	60.231	72.897	1.00	26.10	E	O
	ATOM	7219	C	ASP	E	358	-21.245	55.819	72.391	1.00	17.21	E	C
	ATOM	7220	O	ASP	E	358	-20.044	55.544	72.415	1.00	17.65	E	O
	ATOM	7221	N	SER	E	359	-22.176	55.045	72.950	1.00	18.12	E	N
	ATOM	7222	CA	SER	E	359	-21.826	53.794	73.625	1.00	18.58	E	C
25	ATOM	7223	CB	SER	E	359	-22.941	53.368	74.584	1.00	18.19	E	C
	ATOM	7224	OG	SER	E	359	-24.222	53.627	74.041	1.00	18.40	E	O
	ATOM	7225	C	SER	E	359	-21.551	52.681	72.611	1.00	19.68	E	C
	ATOM	7226	O	SER	E	359	-20.771	51.759	72.878	1.00	18.62	E	O
	ATOM	7227	N	LEU	E	360	-22.197	52.758	71.449	1.00	21.04	E	N
30	ATOM	7228	CA	LEU	E	360	-21.967	51.771	70.399	1.00	21.20	E	C
	ATOM	7229	CB	LEU	E	360	-22.839	52.072	69.181	1.00	20.53	E	C
	ATOM	7230	CG	LEU	E	360	-22.613	51.145	67.982	1.00	21.23	E	C
	ATOM	7231	CD1	LEU	E	360	-22.891	49.685	68.384	1.00	20.56	E	C
	ATOM	7232	CD2	LEU	E	360	-23.519	51.579	66.833	1.00	20.16	E	C
35	ATOM	7233	C	LEU	E	360	-20.486	51.862	70.023	1.00	21.26	E	C
	ATOM	7234	O	LEU	E	360	-19.844	50.857	69.726	1.00	22.05	E	O
	ATOM	7235	N	ASP	E	361	-19.964	53.087	70.029	1.00	22.76	E	N
	ATOM	7236	CA	ASP	E	361	-18.554	53.361	69.750	1.00	23.78	E	C
	ATOM	7237	CB	ASP	E	361	-17.740	53.063	71.022	1.00	24.70	E	C
40	ATOM	7238	CG	ASP	E	361	-16.483	53.920	71.144	1.00	25.97	E	C
	ATOM	7239	OD1	ASP	E	361	-16.435	55.030	70.566	1.00	27.28	E	O
	ATOM	7240	OD2	ASP	E	361	-15.537	53.478	71.828	1.00	23.76	E	O
	ATOM	7241	C	ASP	E	361	-17.919	52.633	68.556	1.00	24.87	E	C
	ATOM	7242	O	ASP	E	361	-16.827	52.072	68.684	1.00	25.78	E	O
45	ATOM	7243	N	VAL	E	362	-18.571	52.653	67.395	1.00	25.36	E	N
	ATOM	7244	CA	VAL	E	362	-18.006	51.985	66.223	1.00	25.93	E	C
	ATOM	7245	CB	VAL	E	362	-19.049	51.090	65.512	1.00	25.12	E	C
	ATOM	7246	CG1	VAL	E	362	-19.477	49.959	66.438	1.00	23.48	E	C
	ATOM	7247	CG2	VAL	E	362	-20.241	51.918	65.069	1.00	24.89	E	C
50	ATOM	7248	C	VAL	E	362	-17.432	52.975	65.211	1.00	26.79	E	C
	ATOM	7249	O	VAL	E	362	-16.831	52.580	64.212	1.00	28.45	E	O
	ATOM	7250	N	HIS	E	363	-17.605	54.261	65.482	1.00	27.79	E	N
	ATOM	7251	CA	HIS	E	363	-17.105	55.313	64.605	1.00	30.45	E	C
	ATOM	7252	CB	HIS	E	363	-17.947	56.576	64.777	1.00	31.67	E	C
55	ATOM	7253	CG	HIS	E	363	-18.026	57.431	63.550	1.00	33.46	E	C
	ATOM	7254	CD2	HIS	E	363	-18.897	57.424	62.511	1.00	33.47	E	C
	ATOM	7255	ND1	HIS	E	363	-17.149	58.469	63.307	1.00	35.31	E	N
	ATOM	7256	CE1	HIS	E	363	-17.478	59.063	62.174	1.00	35.51	E	C
	ATOM	7257	NE2	HIS	E	363	-18.535	58.449	61.672	1.00	34.04	E	N
60	ATOM	7258	C	HIS	E	363	-15.653	55.636	64.927	1.00	32.04	E	C
	ATOM	7259	O	HIS	E	363	-15.299	55.819	66.092	1.00	31.62	E	O
	ATOM	7260	N	ALA	E	364	-14.818	55.705	63.893	1.00	33.75	E	N
	ATOM	7261	CA	ALA	E	364	-13.405	56.018	64.069	1.00	36.37	E	C
	ATOM	7262	CB	ALA	E	364	-12.637	55.675	62.803	1.00	35.43	E	C
65	ATOM	7263	C	ALA	E	364	-13.247	57.502	64.398	1.00	38.94	E	C
	ATOM	7264	O	ALA	E	364	-13.877	58.357	63.779	1.00	40.26	E	O
	ATOM	7265	N	GLY	E	365	-12.409	57.814	65.378	1.00	41.03	E	N
	ATOM	7266	CA	GLY	E	365	-12.223	59.206	65.743	1.00	43.14	E	C

	ATOM	7267	C	GLY	E	365	-10.823	59.706	65.464	1.00	44.14	E	C
	ATOM	7268	O	GLY	E	365	-10.122	59.164	64.603	1.00	46.69	E	O
	ATOM	7269	N	ARG	E	366	-10.420	60.747	66.186	1.00	44.27	E	N
	ATOM	7270	CA	ARG	E	366	-9.092	61.327	66.032	1.00	44.96	E	C
5	ATOM	7271	CB	ARG	E	366	-8.904	62.478	67.015	1.00	45.11	E	C
	ATOM	7272	CG	ARG	E	366	-10.176	63.280	67.210	1.00	44.62	E	C
	ATOM	7273	CD	ARG	E	366	-9.931	64.757	67.050	1.00	44.46	E	C
	ATOM	7274	NE	ARG	E	366	-10.578	65.469	68.139	1.00	42.93	E	N
	ATOM	7275	CZ	ARG	E	366	-10.067	65.550	69.358	1.00	45.23	E	C
10	ATOM	7276	NH1	ARG	E	366	-8.905	64.966	69.627	1.00	45.89	E	N
	ATOM	7277	NH2	ARG	E	366	-10.734	66.179	70.315	1.00	45.25	E	N
	ATOM	7278	C	ARG	E	366	-8.075	60.237	66.294	1.00	45.34	E	C
	ATOM	7279	O	ARG	E	366	-6.975	60.239	65.730	1.00	45.98	E	O
	ATOM	7280	N	GLN	E	367	-8.441	59.303	67.163	1.00	47.19	E	N
15	ATOM	7281	CA	GLN	E	367	-7.570	58.177	67.454	1.00	49.47	E	C
	ATOM	7282	CB	GLN	E	367	-7.976	57.523	68.775	1.00	53.50	E	C
	ATOM	7283	CG	GLN	E	367	-7.759	56.019	68.828	1.00	58.79	E	C
	ATOM	7284	CD	GLN	E	367	-8.998	55.268	69.297	1.00	61.57	E	C
	ATOM	7285	OE1	GLN	E	367	-9.675	55.694	70.246	1.00	63.16	E	O
20	ATOM	7286	NE2	GLN	E	367	-9.303	54.144	68.639	1.00	62.14	E	N
	ATOM	7287	C	GLN	E	367	-7.792	57.228	66.275	1.00	49.21	E	C
	ATOM	7288	O	GLN	E	367	-8.640	57.498	65.424	1.00	51.28	E	O
	ATOM	7289	N	THR	E	368	-7.052	56.124	66.232	1.00	47.54	E	N
25	ATOM	7290	CA	THR	E	368	-7.131	55.146	65.133	1.00	45.44	E	C
	ATOM	7291	CB	THR	E	368	-8.605	54.856	64.599	1.00	44.33	E	C
	ATOM	7292	OG1	THR	E	368	-8.988	55.855	63.648	1.00	42.55	E	O
	ATOM	7293	CG2	THR	E	368	-9.626	54.808	65.742	1.00	43.79	E	C
	ATOM	7294	C	THR	E	368	-6.272	55.654	63.968	1.00	43.41	E	C
	ATOM	7295	O	THR	E	368	-5.828	54.860	63.130	1.00	42.51	E	O
30	ATOM	7296	N	PHE	E	369	-6.037	56.971	63.919	1.00	40.23	E	N
	ATOM	7297	CA	PHE	E	369	-5.200	57.542	62.870	1.00	38.35	E	C
	ATOM	7298	CB	PHE	E	369	-5.102	59.067	62.982	1.00	36.49	E	C
	ATOM	7299	CG	PHE	E	369	-4.373	59.719	61.826	1.00	35.81	E	C
	ATOM	7300	CD1	PHE	E	369	-5.020	59.946	60.609	1.00	35.35	E	C
35	ATOM	7301	CD2	PHE	E	369	-3.036	60.096	61.950	1.00	35.35	E	C
	ATOM	7302	CE1	PHE	E	369	-4.340	60.540	59.529	1.00	33.93	E	C
	ATOM	7303	CE2	PHE	E	369	-2.349	60.691	60.877	1.00	34.80	E	C
	ATOM	7304	CZ	PHE	E	369	-3.004	60.911	59.667	1.00	34.19	E	C
	ATOM	7305	C	PHE	E	369	-3.829	56.932	63.087	1.00	38.39	E	C
40	ATOM	7306	O	PHE	E	369	-3.153	57.244	64.069	1.00	37.77	E	O
	ATOM	7307	N	GLN	E	370	-3.437	56.051	62.170	1.00	39.14	E	N
	ATOM	7308	CA	GLN	E	370	-2.162	55.349	62.243	1.00	38.17	E	C
	ATOM	7309	CB	GLN	E	370	-1.004	56.337	62.288	1.00	38.01	E	C
	ATOM	7310	CG	GLN	E	370	-0.181	56.335	61.026	1.00	39.01	E	C
45	ATOM	7311	CD	GLN	E	370	0.084	57.734	60.540	1.00	41.23	E	C
	ATOM	7312	OE1	GLN	E	370	-0.259	58.707	61.216	1.00	42.41	E	O
	ATOM	7313	NE2	GLN	E	370	0.696	57.853	59.363	1.00	41.51	E	N
	ATOM	7314	C	GLN	E	370	-2.133	54.437	63.469	1.00	38.26	E	C
	ATOM	7315	O	GLN	E	370	-1.081	54.198	64.068	1.00	38.49	E	O
50	ATOM	7316	N	ARG	E	371	-3.316	53.947	63.834	1.00	37.70	E	N
	ATOM	7317	CA	ARG	E	371	-3.495	53.029	64.953	1.00	36.76	E	C
	ATOM	7318	CB	ARG	E	371	-4.165	53.723	66.145	1.00	34.88	E	C
	ATOM	7319	CG	ARG	E	371	-3.203	54.505	67.031	1.00	36.92	E	C
	ATOM	7320	CD	ARG	E	371	-2.167	53.604	67.712	1.00	36.68	E	C
55	ATOM	7321	NE	ARG	E	371	-2.747	52.392	68.303	1.00	37.63	E	N
	ATOM	7322	CZ	ARG	E	371	-3.141	52.270	69.574	1.00	38.17	E	C
	ATOM	7323	NH1	ARG	E	371	-3.031	53.286	70.420	1.00	37.96	E	N
	ATOM	7324	NH2	ARG	E	371	-3.647	51.122	70.013	1.00	37.51	E	N
	ATOM	7325	C	ARG	E	371	-4.420	51.966	64.391	1.00	37.12	E	C
60	ATOM	7326	O	ARG	E	371	-5.587	51.868	64.787	1.00	37.76	E	O
	ATOM	7327	N	PHE	E	372	-3.895	51.188	63.447	1.00	35.94	E	N
	ATOM	7328	CA	PHE	E	372	-4.673	50.142	62.804	1.00	35.70	E	C
	ATOM	7329	CB	PHE	E	372	-3.783	49.298	61.887	1.00	33.50	E	C
	ATOM	7330	CG	PHE	E	372	-4.534	48.663	60.760	1.00	33.21	E	C
65	ATOM	7331	CD1	PHE	E	372	-4.721	49.349	59.559	1.00	32.28	E	C
	ATOM	7332	CD2	PHE	E	372	-5.112	47.405	60.917	1.00	30.69	E	C
	ATOM	7333	CE1	PHE	E	372	-5.479	48.795	58.535	1.00	32.56	E	C
	ATOM	7334	CE2	PHE	E	372	-5.872	46.839	59.900	1.00	31.06	E	C

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	ATOM	7335	CZ	PHE	E	372	-6.058	47.532	58.707	1.00	32.57	E	C
	ATOM	7336	C	PHE	E	372	-5.378	49.235	63.808	1.00	35.94	E	C
	ATOM	7337	O	PHE	E	372	-6.520	48.820	63.593	1.00	36.46	E	O
	ATOM	7338	N	ASP	E	373	-4.691	48.928	64.903	1.00	36.35	E	N
5	ATOM	7339	CA	ASP	E	373	-5.249	48.078	65.946	1.00	37.69	E	C
	ATOM	7340	CB	ASP	E	373	-4.243	47.932	67.086	1.00	38.33	E	C
	ATOM	7341	CG	ASP	E	373	-3.617	49.258	67.482	1.00	41.02	E	C
	ATOM	7342	OD1	ASP	E	373	-3.938	50.292	66.851	1.00	40.75	E	O
10	ATOM	7343	OD2	ASP	E	373	-2.800	49.261	68.428	1.00	42.67	E	O
	ATOM	7344	C	ASP	E	373	-6.556	48.660	66.489	1.00	37.74	E	C
	ATOM	7345	O	ASP	E	373	-7.512	47.925	66.764	1.00	38.03	E	O
	ATOM	7346	N	LYS	E	374	-6.594	49.982	66.637	1.00	37.02	E	N
	ATOM	7347	CA	LYS	E	374	-7.779	50.658	67.145	1.00	36.95	E	C
	ATOM	7348	CB	LYS	E	374	-7.415	52.059	67.629	1.00	37.59	E	C
15	ATOM	7349	CG	LYS	E	374	-6.314	52.050	68.667	1.00	39.96	E	C
	ATOM	7350	CD	LYS	E	374	-6.195	53.382	69.364	1.00	40.73	E	C
	ATOM	7351	CE	LYS	E	374	-6.889	53.351	70.711	1.00	41.80	E	C
	ATOM	7352	NZ	LYS	E	374	-6.504	54.533	71.537	1.00	43.68	E	N
	ATOM	7353	C	LYS	E	374	-8.856	50.738	66.078	1.00	37.64	E	C
20	ATOM	7354	O	LYS	E	374	-10.039	50.907	66.386	1.00	38.10	E	O
	ATOM	7355	N	PHE	E	375	-8.446	50.624	64.819	1.00	38.04	E	N
	ATOM	7356	CA	PHE	E	375	-9.401	50.661	63.716	1.00	37.24	E	C
	ATOM	7357	CB	PHE	E	375	-8.688	50.955	62.389	1.00	34.59	E	C
	ATOM	7358	CG	PHE	E	375	-9.439	50.456	61.188	1.00	34.81	E	C
25	ATOM	7359	CD1	PHE	E	375	-10.631	51.069	60.800	1.00	34.39	E	C
	ATOM	7360	CD2	PHE	E	375	-9.003	49.328	60.493	1.00	33.56	E	C
	ATOM	7361	CE1	PHE	E	375	-11.387	50.564	59.744	1.00	32.93	E	C
	ATOM	7362	CE2	PHE	E	375	-9.750	48.814	59.437	1.00	32.98	E	C
30	ATOM	7363	CZ	PHE	E	375	-10.948	49.437	59.065	1.00	33.13	E	C
	ATOM	7364	C	PHE	E	375	-10.114	49.298	63.630	1.00	37.35	E	C
	ATOM	7365	O	PHE	E	375	-11.344	49.226	63.488	1.00	35.79	E	O
	ATOM	7366	N	ASN	E	376	-9.332	48.225	63.727	1.00	38.46	E	N
	ATOM	7367	CA	ASN	E	376	-9.876	46.876	63.658	1.00	41.54	E	C
	ATOM	7368	CB	ASN	E	376	-8.742	45.860	63.520	1.00	41.57	E	C
35	ATOM	7369	CG	ASN	E	376	-8.990	44.868	62.403	1.00	43.81	E	C
	ATOM	7370	OD1	ASN	E	376	-10.137	44.638	62.000	1.00	44.60	E	O
	ATOM	7371	ND2	ASN	E	376	-7.918	44.276	61.890	1.00	43.71	E	N
	ATOM	7372	C	ASN	E	376	-10.743	46.519	64.870	1.00	42.99	E	C
40	ATOM	7373	O	ASN	E	376	-11.678	45.718	64.770	1.00	43.39	E	O
	ATOM	7374	N	ASP	E	377	-10.437	47.107	66.017	1.00	43.77	E	N
	ATOM	7375	CA	ASP	E	377	-11.230	46.817	67.191	1.00	46.33	E	C
	ATOM	7376	CB	ASP	E	377	-10.380	46.970	68.450	1.00	48.96	E	C
	ATOM	7377	CG	ASP	E	377	-9.675	45.667	68.825	1.00	51.79	E	C
	ATOM	7378	OD1	ASP	E	377	-9.700	44.716	68.004	1.00	51.94	E	O
45	ATOM	7379	OD2	ASP	E	377	-9.100	45.592	69.935	1.00	55.22	E	O
	ATOM	7380	C	ASP	E	377	-12.463	47.709	67.219	1.00	46.35	E	C
	ATOM	7381	O	ASP	E	377	-13.269	47.653	68.145	1.00	46.13	E	O
	ATOM	7382	N	LYS	E	378	-12.613	48.522	66.178	1.00	48.06	E	N
	ATOM	7383	CA	LYS	E	378	-13.769	49.400	66.053	1.00	48.22	E	C
50	ATOM	7384	CB	LYS	E	378	-13.486	50.519	65.049	1.00	49.37	E	C
	ATOM	7385	CG	LYS	E	378	-13.986	51.883	65.484	1.00	51.27	E	C
	ATOM	7386	CD	LYS	E	378	-13.047	52.511	66.498	1.00	52.11	E	C
	ATOM	7387	CE	LYS	E	378	-13.811	53.076	67.677	1.00	51.97	E	C
	ATOM	7388	NZ	LYS	E	378	-13.461	54.503	67.896	1.00	55.22	E	N
55	ATOM	7389	C	LYS	E	378	-14.914	48.531	65.546	1.00	47.99	E	C
	ATOM	7390	O	LYS	E	378	-16.086	48.904	65.628	1.00	47.71	E	O
	ATOM	7391	N	TYR	E	379	-14.552	47.364	65.015	1.00	48.23	E	N
	ATOM	7392	CA	TYR	E	379	-15.525	46.411	64.499	1.00	47.49	E	C
	ATOM	7393	CB	TYR	E	379	-14.829	45.312	63.698	1.00	51.38	E	C
60	ATOM	7394	CG	TYR	E	379	-14.577	45.648	62.248	1.00	56.52	E	C
	ATOM	7395	CD1	TYR	E	379	-13.431	45.188	61.600	1.00	57.82	E	C
	ATOM	7396	CE1	TYR	E	379	-13.191	45.488	60.266	1.00	59.01	E	C
	ATOM	7397	CD2	TYR	E	379	-15.481	46.423	61.520	1.00	57.54	E	C
	ATOM	7398	CE2	TYR	E	379	-15.248	46.729	60.182	1.00	58.82	E	C
65	ATOM	7399	CZ	TYR	E	379	-14.103	46.259	59.560	1.00	59.21	E	C
	ATOM	7400	OH	TYR	E	379	-13.874	46.550	58.233	1.00	58.05	E	O
	ATOM	7401	C	TYR	E	379	-16.257	45.772	65.667	1.00	45.68	E	C
	ATOM	7402	O	TYR	E	379	-17.160	44.956	65.472	1.00	46.61	E	O

	ATOM	7403	N	ASN	E	380	-15.848	46.134	66.882	1.00	41.93	E	N
	ATOM	7404	CA	ASN	E	380	-16.463	45.601	68.092	1.00	36.63	E	C
	ATOM	7405	CB	ASN	E	380	-15.411	45.385	69.180	1.00	34.83	E	C
	ATOM	7406	CG	ASN	E	380	-14.420	44.307	68.821	1.00	33.91	E	C
5	ATOM	7407	OD1	ASN	E	380	-14.737	43.374	68.086	1.00	31.95	E	O
	ATOM	7408	ND2	ASN	E	380	-13.207	44.429	69.340	1.00	34.55	E	N
	ATOM	7409	C	ASN	E	380	-17.523	46.555	68.621	1.00	33.32	E	C
	ATOM	7410	O	ASN	E	380	-17.202	47.569	69.238	1.00	33.05	E	O
	ATOM	7411	N	PRO	E	381	-18.805	46.247	68.376	1.00	30.19	E	N
10	ATOM	7412	CD	PRO	E	381	-19.332	45.080	67.651	1.00	29.50	E	C
	ATOM	7413	CA	PRO	E	381	-19.868	47.126	68.869	1.00	29.09	E	C
	ATOM	7414	CB	PRO	E	381	-21.155	46.435	68.418	1.00	28.02	E	C
	ATOM	7415	CG	PRO	E	381	-20.741	45.470	67.365	1.00	27.58	E	C
	ATOM	7416	C	PRO	E	381	-19.772	47.226	70.395	1.00	28.85	E	C
15	ATOM	7417	O	PRO	E	381	-19.558	46.223	71.079	1.00	27.21	E	O
	ATOM	7418	N	VAL	E	382	-19.924	48.438	70.915	1.00	28.24	E	N
	ATOM	7419	CA	VAL	E	382	-19.847	48.689	72.349	1.00	28.57	E	C
	ATOM	7420	CB	VAL	E	382	-21.143	48.210	73.073	1.00	28.64	E	C
20	ATOM	7421	CG1	VAL	E	382	-21.035	46.759	73.464	1.00	31.39	E	C
	ATOM	7422	CG2	VAL	E	382	-21.392	49.063	74.299	1.00	30.18	E	C
	ATOM	7423	C	VAL	E	382	-18.603	48.050	72.979	1.00	28.26	E	C
	ATOM	7424	O	VAL	E	382	-18.576	47.753	74.171	1.00	28.25	E	O
	ATOM	7425	N	GLY	E	383	-17.573	47.850	72.158	1.00	27.18	E	N
25	ATOM	7426	CA	GLY	E	383	-16.321	47.280	72.629	1.00	23.55	E	C
	ATOM	7427	C	GLY	E	383	-16.316	45.799	72.944	1.00	23.01	E	C
	ATOM	7428	O	GLY	E	383	-15.358	45.302	73.531	1.00	23.50	E	O
	ATOM	7429	N	ALA	E	384	-17.365	45.085	72.550	1.00	23.03	E	N
	ATOM	7430	CA	ALA	E	384	-17.457	43.652	72.827	1.00	22.27	E	C
30	ATOM	7431	CB	ALA	E	384	-18.804	43.338	73.470	1.00	20.42	E	C
	ATOM	7432	C	ALA	E	384	-17.269	42.789	71.584	1.00	22.96	E	C
	ATOM	7433	O	ALA	E	384	-18.069	42.850	70.653	1.00	23.47	E	O
	ATOM	7434	N	SER	E	385	-16.222	41.972	71.577	1.00	23.79	E	N
	ATOM	7435	CA	SER	E	385	-15.966	41.092	70.448	1.00	24.30	E	C
35	ATOM	7436	CB	SER	E	385	-14.640	40.351	70.644	1.00	25.65	E	C
	ATOM	7437	OG	SER	E	385	-14.782	39.242	71.512	1.00	29.97	E	O
	ATOM	7438	C	SER	E	385	-17.116	40.100	70.286	1.00	25.45	E	C
	ATOM	7439	O	SER	E	385	-17.403	39.648	69.177	1.00	26.52	E	O
	ATOM	7440	N	GLU	E	386	-17.777	39.774	71.397	1.00	25.61	E	N
40	ATOM	7441	CA	GLU	E	386	-18.914	38.852	71.393	1.00	25.25	E	C
	ATOM	7442	CB	GLU	E	386	-19.480	38.686	72.809	1.00	25.13	E	C
	ATOM	7443	CG	GLU	E	386	-18.607	37.884	73.762	1.00	26.05	E	C
	ATOM	7444	CD	GLU	E	386	-17.604	38.746	74.514	1.00	26.82	E	C
	ATOM	7445	OE1	GLU	E	386	-16.782	38.182	75.267	1.00	27.83	E	O
45	ATOM	7446	OE2	GLU	E	386	-17.631	39.986	74.354	1.00	28.94	E	O
	ATOM	7447	C	GLU	E	386	-20.015	39.397	70.492	1.00	25.01	E	C
	ATOM	7448	O	GLU	E	386	-20.679	38.643	69.785	1.00	25.97	E	O
	ATOM	7449	N	LEU	E	387	-20.206	40.712	70.531	1.00	25.16	E	N
	ATOM	7450	CA	LEU	E	387	-21.234	41.368	69.729	1.00	24.87	E	C
50	ATOM	7451	CB	LEU	E	387	-21.525	42.755	70.302	1.00	25.20	E	C
	ATOM	7452	CG	LEU	E	387	-22.130	42.750	71.712	1.00	24.99	E	C
	ATOM	7453	CD1	LEU	E	387	-22.440	44.166	72.136	1.00	25.11	E	C
	ATOM	7454	CD2	LEU	E	387	-23.401	41.910	71.737	1.00	25.47	E	C
	ATOM	7455	C	LEU	E	387	-20.835	41.466	68.258	1.00	25.14	E	C
55	ATOM	7456	O	LEU	E	387	-21.687	41.466	67.374	1.00	24.44	E	O
	ATOM	7457	N	ARG	E	388	-19.537	41.551	68.000	1.00	25.59	E	N
	ATOM	7458	CA	ARG	E	388	-19.052	41.598	66.632	1.00	27.86	E	C
	ATOM	7459	CB	ARG	E	388	-17.556	41.930	66.600	1.00	30.71	E	C
	ATOM	7460	CG	ARG	E	388	-16.803	41.331	65.419	1.00	35.14	E	C
60	ATOM	7461	CD	ARG	E	388	-15.652	42.218	64.973	1.00	40.10	E	C
	ATOM	7462	NE	ARG	E	388	-14.824	41.570	63.956	1.00	46.79	E	N
	ATOM	7463	CZ	ARG	E	388	-13.608	41.982	63.592	1.00	49.49	E	C
	ATOM	7464	NH1	ARG	E	388	-13.059	43.050	64.159	1.00	50.69	E	N
	ATOM	7465	NH2	ARG	E	388	-12.932	41.316	62.664	1.00	51.88	E	N
65	ATOM	7466	C	ARG	E	388	-19.292	40.213	66.036	1.00	26.67	E	C
	ATOM	7467	O	ARG	E	388	-19.798	40.080	64.923	1.00	27.49	E	O
	ATOM	7468	N	ASP	E	389	-18.934	39.184	66.792	1.00	25.10	E	N
	ATOM	7469	CA	ASP	E	389	-19.110	37.807	66.354	1.00	23.91	E	C
	ATOM	7470	CB	ASP	E	389	-18.636	36.847	67.438	1.00	26.44	E	C

	ATOM	7471	CG	ASP	E	389	-17.136	36.763	67.523	1.00	29.53	E	C
	ATOM	7472	OD1	ASP	E	389	-16.633	36.160	68.495	1.00	31.18	E	O
	ATOM	7473	OD2	ASP	E	389	-16.458	37.300	66.620	1.00	32.61	E	O
	ATOM	7474	C	ASP	E	389	-20.558	37.485	66.050	1.00	22.29	E	C
5	ATOM	7475	O	ASP	E	389	-20.852	36.691	65.159	1.00	21.93	E	O
	ATOM	7476	N	LEU	E	390	-21.457	38.104	66.804	1.00	21.43	E	N
	ATOM	7477	CA	LEU	E	390	-22.881	37.863	66.666	1.00	21.24	E	C
	ATOM	7478	CB	LEU	E	390	-23.568	38.165	68.003	1.00	20.20	E	C
	ATOM	7479	CG	LEU	E	390	-25.097	38.124	68.058	1.00	20.50	E	C
10	ATOM	7480	CD1	LEU	E	390	-25.587	36.722	67.733	1.00	21.71	E	C
	ATOM	7481	CD2	LEU	E	390	-25.569	38.543	69.443	1.00	22.00	E	C
	ATOM	7482	C	LEU	E	390	-23.601	38.613	65.545	1.00	21.24	E	C
	ATOM	7483	O	LEU	E	390	-24.416	38.029	64.826	1.00	21.76	E	O
	ATOM	7484	N	TYR	E	391	-23.297	39.897	65.395	1.00	20.23	E	N
15	ATOM	7485	CA	TYR	E	391	-23.962	40.736	64.401	1.00	20.56	E	C
	ATOM	7486	CB	TYR	E	391	-24.296	42.100	65.030	1.00	20.41	E	C
	ATOM	7487	CG	TYR	E	391	-25.338	42.059	66.136	1.00	22.96	E	C
	ATOM	7488	CD1	TYR	E	391	-26.702	42.040	65.838	1.00	23.34	E	C
	ATOM	7489	CE1	TYR	E	391	-27.660	41.996	66.845	1.00	22.64	E	C
20	ATOM	7490	CD2	TYR	E	391	-24.959	42.037	67.481	1.00	23.47	E	C
	ATOM	7491	CE2	TYR	E	391	-25.915	41.991	68.498	1.00	22.85	E	C
	ATOM	7492	CZ	TYR	E	391	-27.260	41.969	68.171	1.00	22.23	E	C
	ATOM	7493	OH	TYR	E	391	-28.206	41.900	69.165	1.00	22.21	E	O
	ATOM	7494	C	TYR	E	391	-23.215	40.987	63.089	1.00	20.22	E	C
25	ATOM	7495	O	TYR	E	391	-23.837	41.310	62.071	1.00	18.30	E	O
	ATOM	7496	N	LEU	E	392	-21.892	40.843	63.110	1.00	19.26	E	N
	ATOM	7497	CA	LEU	E	392	-21.091	41.131	61.928	1.00	19.23	E	C
	ATOM	7498	CB	LEU	E	392	-20.216	42.366	62.192	1.00	17.55	E	C
	ATOM	7499	CG	LEU	E	392	-20.927	43.575	62.810	1.00	19.39	E	C
30	ATOM	7500	CD1	LEU	E	392	-19.912	44.642	63.168	1.00	18.17	E	C
	ATOM	7501	CD2	LEU	E	392	-21.958	44.126	61.840	1.00	17.42	E	C
	ATOM	7502	C	LEU	E	392	-20.213	40.010	61.403	1.00	20.12	E	C
	ATOM	7503	O	LEU	E	392	-19.168	40.273	60.802	1.00	20.71	E	O
	ATOM	7504	N	LYS	E	393	-20.623	38.766	61.614	1.00	19.95	E	N
35	ATOM	7505	CA	LYS	E	393	-19.844	37.639	61.126	1.00	20.51	E	C
	ATOM	7506	CB	LYS	E	393	-19.110	36.959	62.273	1.00	21.81	E	C
	ATOM	7507	CG	LYS	E	393	-17.980	37.790	62.830	1.00	24.34	E	C
	ATOM	7508	CD	LYS	E	393	-16.700	36.997	62.858	1.00	28.06	E	C
	ATOM	7509	CE	LYS	E	393	-15.595	37.776	63.539	1.00	30.86	E	C
40	ATOM	7510	NZ	LYS	E	393	-14.364	36.946	63.677	1.00	33.83	E	N
	ATOM	7511	C	LYS	E	393	-20.767	36.651	60.451	1.00	20.98	E	C
	ATOM	7512	O	LYS	E	393	-21.963	36.627	60.730	1.00	20.77	E	O
	ATOM	7513	N	THR	E	394	-20.213	35.839	59.558	1.00	20.11	E	N
	ATOM	7514	CA	THR	E	394	-21.021	34.862	58.843	1.00	21.18	E	C
45	ATOM	7515	CB	THR	E	394	-20.493	34.665	57.394	1.00	19.15	E	C
	ATOM	7516	OG1	THR	E	394	-19.173	34.113	57.427	1.00	17.16	E	O
	ATOM	7517	CG2	THR	E	394	-20.452	35.988	56.664	1.00	15.15	E	C
	ATOM	7518	C	THR	E	394	-21.065	33.513	59.568	1.00	22.50	E	C
	ATOM	7519	O	THR	E	394	-22.034	32.758	59.442	1.00	22.71	E	O
50	ATOM	7520	N	ASP	E	395	-20.020	33.223	60.337	1.00	23.00	E	N
	ATOM	7521	CA	ASP	E	395	-19.948	31.972	61.068	1.00	25.34	E	C
	ATOM	7522	CB	ASP	E	395	-18.641	31.251	60.753	1.00	28.41	E	C
	ATOM	7523	CG	ASP	E	395	-18.624	29.822	61.272	1.00	33.02	E	C
	ATOM	7524	OD1	ASP	E	395	-19.711	29.207	61.370	1.00	35.71	E	O
55	ATOM	7525	OD2	ASP	E	395	-17.524	29.313	61.580	1.00	35.97	E	O
	ATOM	7526	C	ASP	E	395	-20.056	32.183	62.572	1.00	26.00	E	C
	ATOM	7527	O	ASP	E	395	-19.198	32.815	63.179	1.00	24.99	E	O
	ATOM	7528	N	ASN	E	396	-21.120	31.652	63.163	1.00	26.31	E	N
	ATOM	7529	CA	ASN	E	396	-21.338	31.763	64.594	1.00	25.76	E	C
60	ATOM	7530	CB	ASN	E	396	-21.704	33.203	64.980	1.00	23.25	E	C
	ATOM	7531	CG	ASN	E	396	-22.993	33.676	64.351	1.00	23.35	E	C
	ATOM	7532	OD1	ASN	E	396	-23.251	34.875	64.287	1.00	25.12	E	O
	ATOM	7533	ND2	ASN	E	396	-23.812	32.743	63.887	1.00	23.78	E	N
	ATOM	7534	C	ASN	E	396	-22.430	30.799	65.027	1.00	26.59	E	C
65	ATOM	7535	O	ASN	E	396	-22.889	29.974	64.236	1.00	27.10	E	O
	ATOM	7536	N	TYR	E	397	-22.847	30.909	66.283	1.00	27.02	E	N
	ATOM	7537	CA	TYR	E	397	-23.865	30.024	66.824	1.00	26.99	E	C
	ATOM	7538	CB	TYR	E	397	-24.130	30.350	68.293	1.00	29.26	E	C

	ATOM	7539	CG	TYR	E	397	-24.913	29.271	68.999	1.00	29.89	E	C
	ATOM	7540	CD1	TYR	E	397	-26.306	29.326	69.068	1.00	29.27	E	C
	ATOM	7541	CE1	TYR	E	397	-27.035	28.324	69.703	1.00	31.17	E	C
	ATOM	7542	CD2	TYR	E	397	-24.262	28.185	69.586	1.00	31.64	E	C
5	ATOM	7543	CE2	TYR	E	397	-24.981	27.174	70.226	1.00	33.45	E	C
	ATOM	7544	CZ	TYR	E	397	-26.367	27.249	70.281	1.00	33.03	E	C
	ATOM	7545	OH	TYR	E	397	-27.080	26.250	70.913	1.00	37.18	E	O
	ATOM	7546	C	TYR	E	397	-25.175	30.051	66.056	1.00	26.79	E	C
	ATOM	7547	O	TYR	E	397	-25.841	29.024	65.938	1.00	28.08	E	O
10	ATOM	7548	N	ILE	E	398	-25.563	31.216	65.548	1.00	26.06	E	N
	ATOM	7549	CA	ILE	E	398	-26.803	31.301	64.789	1.00	25.61	E	C
	ATOM	7550	CB	ILE	E	398	-27.656	32.526	65.214	1.00	25.24	E	C
	ATOM	7551	CG2	ILE	E	398	-28.215	32.298	66.601	1.00	25.73	E	C
	ATOM	7552	CG1	ILE	E	398	-26.820	33.802	65.203	1.00	24.54	E	C
15	ATOM	7553	CD1	ILE	E	398	-27.658	35.053	65.165	1.00	24.22	E	C
	ATOM	7554	C	ILE	E	398	-26.546	31.342	63.281	1.00	25.08	E	C
	ATOM	7555	O	ILE	E	398	-27.362	31.852	62.516	1.00	25.76	E	O
	ATOM	7556	N	ASN	E	399	-25.407	30.792	62.867	1.00	25.29	E	N
	ATOM	7557	CA	ASN	E	399	-25.014	30.720	61.459	1.00	26.12	E	C
20	ATOM	7558	CB	ASN	E	399	-25.879	29.686	60.732	1.00	27.65	E	C
	ATOM	7559	CG	ASN	E	399	-25.872	28.326	61.418	1.00	30.40	E	C
	ATOM	7560	OD1	ASN	E	399	-24.815	27.797	61.769	1.00	30.64	E	O
	ATOM	7561	ND2	ASN	E	399	-27.057	27.755	61.609	1.00	30.12	E	N
	ATOM	7562	C	ASN	E	399	-25.068	32.044	60.693	1.00	26.38	E	C
25	ATOM	7563	O	ASN	E	399	-25.641	32.114	59.604	1.00	27.11	E	O
	ATOM	7564	N	GLY	E	400	-24.472	33.086	61.264	1.00	25.27	E	N
	ATOM	7565	CA	GLY	E	400	-24.439	34.390	60.623	1.00	23.36	E	C
	ATOM	7566	C	GLY	E	400	-25.755	34.991	60.160	1.00	22.66	E	C
	ATOM	7567	O	GLY	E	400	-25.767	35.879	59.311	1.00	21.48	E	O
30	ATOM	7568	N	GLU	E	401	-26.863	34.541	60.729	1.00	23.18	E	N
	ATOM	7569	CA	GLU	E	401	-28.172	35.043	60.336	1.00	23.31	E	C
	ATOM	7570	CB	GLU	E	401	-29.251	34.267	61.083	1.00	23.96	E	C
	ATOM	7571	CG	GLU	E	401	-30.648	34.757	60.791	1.00	27.51	E	C
	ATOM	7572	CD	GLU	E	401	-31.679	34.069	61.652	1.00	29.41	E	C
35	ATOM	7573	OE1	GLU	E	401	-31.653	32.817	61.707	1.00	29.58	E	O
	ATOM	7574	OE2	GLU	E	401	-32.508	34.778	62.270	1.00	27.66	E	O
	ATOM	7575	C	GLU	E	401	-28.407	36.552	60.512	1.00	23.77	E	C
	ATOM	7576	O	GLU	E	401	-29.095	37.177	59.699	1.00	23.67	E	O
	ATOM	7577	N	TYR	E	402	-27.852	37.136	61.573	1.00	24.14	E	N
40	ATOM	7578	CA	TYR	E	402	-28.016	38.569	61.847	1.00	21.45	E	C
	ATOM	7579	CB	TYR	E	402	-27.524	38.900	63.260	1.00	21.72	E	C
	ATOM	7580	CG	TYR	E	402	-28.507	38.565	64.365	1.00	21.77	E	C
	ATOM	7581	CD1	TYR	E	402	-29.743	38.002	64.074	1.00	22.05	E	C
	ATOM	7582	CE1	TYR	E	402	-30.666	37.716	65.084	1.00	23.91	E	C
45	ATOM	7583	CD2	TYR	E	402	-28.207	38.836	65.702	1.00	21.41	E	C
	ATOM	7584	CE2	TYR	E	402	-29.121	38.555	66.722	1.00	21.72	E	C
	ATOM	7585	CZ	TYR	E	402	-30.349	37.998	66.404	1.00	22.83	E	C
	ATOM	7586	OH	TYR	E	402	-31.271	37.740	67.388	1.00	21.84	E	O
	ATOM	7587	C	TYR	E	402	-27.260	39.429	60.834	1.00	19.80	E	C
50	ATOM	7588	O	TYR	E	402	-27.738	40.490	60.425	1.00	16.76	E	O
	ATOM	7589	N	PHE	E	403	-26.072	38.968	60.453	1.00	18.60	E	N
	ATOM	7590	CA	PHE	E	403	-25.241	39.663	59.477	1.00	19.49	E	C
	ATOM	7591	CB	PHE	E	403	-23.886	38.967	59.358	1.00	17.82	E	C
	ATOM	7592	CG	PHE	E	403	-22.873	39.751	58.585	1.00	18.17	E	C
55	ATOM	7593	CD1	PHE	E	403	-22.902	41.146	58.584	1.00	15.49	E	C
	ATOM	7594	CD2	PHE	E	403	-21.888	39.097	57.855	1.00	16.24	E	C
	ATOM	7595	CE1	PHE	E	403	-21.958	41.877	57.862	1.00	18.55	E	C
	ATOM	7596	CE2	PHE	E	403	-20.939	39.816	57.129	1.00	17.47	E	C
	ATOM	7597	CZ	PHE	E	403	-20.971	41.207	57.130	1.00	16.77	E	C
60	ATOM	7598	C	PHE	E	403	-25.956	39.632	58.131	1.00	18.84	E	C
	ATOM	7599	O	PHE	E	403	-25.991	40.623	57.408	1.00	20.08	E	O
	ATOM	7600	N	ALA	E	404	-26.537	38.482	57.815	1.00	19.84	E	N
	ATOM	7601	CA	ALA	E	404	-27.273	38.307	56.576	1.00	19.65	E	C
	ATOM	7602	CB	ALA	E	404	-27.807	36.896	56.493	1.00	18.12	E	C
65	ATOM	7603	C	ALA	E	404	-28.420	39.305	56.512	1.00	20.07	E	C
	ATOM	7604	O	ALA	E	404	-28.577	40.029	55.529	1.00	22.37	E	O
	ATOM	7605	N	THR	E	405	-29.214	39.352	57.573	1.00	20.00	E	N
	ATOM	7606	CA	THR	E	405	-30.357	40.255	57.635	1.00	19.19	E	C

	ATOM	7607	CB	THR	E	405	-31.130	40.071	58.949	1.00	18.52	E	C
	ATOM	7608	OG1	THR	E	405	-31.443	38.685	59.121	1.00	19.23	E	O
	ATOM	7609	CG2	THR	E	405	-32.418	40.883	58.926	1.00	17.29	E	C
	ATOM	7610	C	THR	E	405	-30.000	41.732	57.488	1.00	19.87	E	C
5	ATOM	7611	O	THR	E	405	-30.712	42.476	56.812	1.00	20.60	E	O
	ATOM	7612	N	ILE	E	406	-28.918	42.159	58.134	1.00	20.93	E	N
	ATOM	7613	CA	ILE	E	406	-28.488	43.556	58.053	1.00	22.01	E	C
	ATOM	7614	CB	ILE	E	406	-27.286	43.856	58.991	1.00	22.19	E	C
10	ATOM	7615	CG2	ILE	E	406	-26.768	45.268	58.738	1.00	23.78	E	C
	ATOM	7616	CG1	ILE	E	406	-27.712	43.737	60.457	1.00	23.54	E	C
	ATOM	7617	CD1	ILE	E	406	-26.539	43.654	61.431	1.00	20.18	E	C
	ATOM	7618	C	ILE	E	406	-28.059	43.860	56.621	1.00	21.76	E	C
	ATOM	7619	O	ILE	E	406	-28.441	44.885	56.049	1.00	22.88	E	O
	ATOM	7620	N	ILE	E	407	-27.262	42.960	56.050	1.00	21.21	E	N
15	ATOM	7621	CA	ILE	E	407	-26.781	43.117	54.685	1.00	20.15	E	C
	ATOM	7622	CB	ILE	E	407	-25.867	41.957	54.295	1.00	18.07	E	C
	ATOM	7623	CG2	ILE	E	407	-25.985	41.670	52.814	1.00	18.28	E	C
	ATOM	7624	CG1	ILE	E	407	-24.428	42.305	54.649	1.00	18.44	E	C
	ATOM	7625	CD1	ILE	E	407	-23.535	41.101	54.733	1.00	20.00	E	C
20	ATOM	7626	C	ILE	E	407	-27.944	43.202	53.694	1.00	20.85	E	C
	ATOM	7627	O	ILE	E	407	-27.932	44.027	52.784	1.00	20.87	E	O
	ATOM	7628	N	LYS	E	408	-28.957	42.365	53.881	1.00	20.87	E	N
	ATOM	7629	CA	LYS	E	408	-30.098	42.378	52.982	1.00	20.59	E	C
	ATOM	7630	CB	LYS	E	408	-31.006	41.179	53.254	1.00	20.89	E	C
25	ATOM	7631	CG	LYS	E	408	-30.535	39.909	52.568	1.00	20.91	E	C
	ATOM	7632	CD	LYS	E	408	-30.560	38.725	53.508	1.00	23.74	E	C
	ATOM	7633	CE	LYS	E	408	-31.841	37.937	53.352	1.00	24.87	E	C
	ATOM	7634	NZ	LYS	E	408	-32.463	38.193	52.019	1.00	28.45	E	N
	ATOM	7635	C	LYS	E	408	-30.880	43.676	53.112	1.00	21.84	E	C
30	ATOM	7636	O	LYS	E	408	-31.495	44.144	52.146	1.00	20.78	E	O
	ATOM	7637	N	GLU	E	409	-30.851	44.261	54.305	1.00	20.17	E	N
	ATOM	7638	CA	GLU	E	409	-31.552	45.514	54.537	1.00	21.31	E	C
	ATOM	7639	CB	GLU	E	409	-31.663	45.787	56.038	1.00	23.77	E	C
	ATOM	7640	CG	GLU	E	409	-32.631	44.861	56.751	1.00	25.03	E	C
35	ATOM	7641	CD	GLU	E	409	-32.807	45.208	58.215	1.00	26.00	E	C
	ATOM	7642	OE1	GLU	E	409	-31.949	45.921	58.777	1.00	25.96	E	O
	ATOM	7643	OE2	GLU	E	409	-33.810	44.760	58.802	1.00	28.39	E	O
	ATOM	7644	C	GLU	E	409	-30.804	46.651	53.847	1.00	19.63	E	C
	ATOM	7645	O	GLU	E	409	-31.404	47.624	53.390	1.00	19.70	E	O
40	ATOM	7646	N	VAL	E	410	-29.488	46.526	53.782	1.00	18.24	E	N
	ATOM	7647	CA	VAL	E	410	-28.669	47.532	53.128	1.00	19.36	E	C
	ATOM	7648	CB	VAL	E	410	-27.170	47.277	53.367	1.00	19.65	E	C
	ATOM	7649	CG1	VAL	E	410	-26.348	48.193	52.483	1.00	19.86	E	C
	ATOM	7650	CG2	VAL	E	410	-26.823	47.496	54.831	1.00	18.14	E	C
45	ATOM	7651	C	VAL	E	410	-28.945	47.456	51.624	1.00	20.92	E	C
	ATOM	7652	O	VAL	E	410	-29.189	48.471	50.977	1.00	20.87	E	O
	ATOM	7653	N	GLY	E	411	-28.911	46.238	51.084	1.00	21.09	E	N
	ATOM	7654	CA	GLY	E	411	-29.163	46.038	49.669	1.00	21.03	E	C
	ATOM	7655	C	GLY	E	411	-30.500	46.606	49.240	1.00	22.00	E	C
50	ATOM	7656	O	GLY	E	411	-30.622	47.190	48.161	1.00	24.57	E	O
	ATOM	7657	N	ALA	E	412	-31.512	46.444	50.085	1.00	21.96	E	N
	ATOM	7658	CA	ALA	E	412	-32.840	46.948	49.774	1.00	21.09	E	C
	ATOM	7659	CB	ALA	E	412	-33.844	46.439	50.797	1.00	20.89	E	C
	ATOM	7660	C	ALA	E	412	-32.854	48.471	49.737	1.00	21.69	E	C
55	ATOM	7661	O	ALA	E	412	-33.583	49.075	48.950	1.00	21.59	E	O
	ATOM	7662	N	ASP	E	413	-32.058	49.100	50.596	1.00	21.52	E	N
	ATOM	7663	CA	ASP	E	413	-32.002	50.557	50.616	1.00	21.70	E	C
	ATOM	7664	CB	ASP	E	413	-31.139	51.050	51.780	1.00	23.09	E	C
	ATOM	7665	CG	ASP	E	413	-31.884	51.068	53.101	1.00	24.18	E	C
60	ATOM	7666	OD1	ASP	E	413	-31.208	51.054	54.153	1.00	23.47	E	O
	ATOM	7667	OD2	ASP	E	413	-33.133	51.095	53.088	1.00	22.61	E	O
	ATOM	7668	C	ASP	E	413	-31.378	51.017	49.307	1.00	22.03	E	C
	ATOM	7669	O	ASP	E	413	-31.741	52.059	48.765	1.00	21.89	E	O
	ATOM	7670	N	LEU	E	414	-30.424	50.228	48.821	1.00	22.04	E	N
65	ATOM	7671	CA	LEU	E	414	-29.716	50.507	47.578	1.00	20.69	E	C
	ATOM	7672	CB	LEU	E	414	-28.617	49.455	47.368	1.00	20.52	E	C
	ATOM	7673	CG	LEU	E	414	-27.145	49.815	47.613	1.00	18.93	E	C
	ATOM	7674	CD1	LEU	E	414	-27.022	51.036	48.482	1.00	17.91	E	C

	ATOM	7675	CD2	LEU	E	414	-26.448	48.636	48.246	1.00	16.97	E	C
	ATOM	7676	C	LEU	E	414	-30.701	50.472	46.412	1.00	20.59	E	C
	ATOM	7677	O	LEU	E	414	-30.762	51.405	45.613	1.00	19.22	E	O
	ATOM	7678	N	VAL	E	415	-31.474	49.391	46.332	1.00	21.88	E	N
5	ATOM	7679	CA	VAL	E	415	-32.467	49.221	45.277	1.00	22.80	E	C
	ATOM	7680	CB	VAL	E	415	-33.234	47.888	45.445	1.00	22.03	E	C
	ATOM	7681	CG1	VAL	E	415	-34.452	47.864	44.541	1.00	21.47	E	C
	ATOM	7682	CG2	VAL	E	415	-32.324	46.723	45.112	1.00	18.57	E	C
	ATOM	7683	C	VAL	E	415	-33.470	50.371	45.255	1.00	24.47	E	C
10	ATOM	7684	O	VAL	E	415	-33.981	50.734	44.197	1.00	24.67	E	O
	ATOM	7685	N	ASP	E	416	-33.748	50.944	46.422	1.00	26.14	E	N
	ATOM	7686	CA	ASP	E	416	-34.689	52.059	46.528	1.00	28.06	E	C
	ATOM	7687	CB	ASP	E	416	-35.045	52.326	47.990	1.00	32.15	E	C
	ATOM	7688	CG	ASP	E	416	-36.190	51.473	48.476	1.00	38.14	E	C
15	ATOM	7689	OD1	ASP	E	416	-36.446	51.481	49.699	1.00	42.28	E	O
	ATOM	7690	OD2	ASP	E	416	-36.834	50.792	47.645	1.00	41.79	E	O
	ATOM	7691	C	ASP	E	416	-34.113	53.333	45.932	1.00	26.76	E	C
	ATOM	7692	O	ASP	E	416	-34.832	54.117	45.320	1.00	27.85	E	O
	ATOM	7693	N	ALA	E	417	-32.817	53.544	46.132	1.00	25.75	E	N
20	ATOM	7694	CA	ALA	E	417	-32.139	54.730	45.615	1.00	25.09	E	C
	ATOM	7695	CB	ALA	E	417	-30.855	54.968	46.387	1.00	24.35	E	C
	ATOM	7696	C	ALA	E	417	-31.839	54.547	44.129	1.00	24.66	E	C
	ATOM	7697	O	ALA	E	417	-31.579	55.512	43.406	1.00	23.70	E	O
	ATOM	7698	N	LYS	E	418	-31.847	53.289	43.699	1.00	23.28	E	N
25	ATOM	7699	CA	LYS	E	418	-31.634	52.914	42.306	1.00	22.16	E	C
	ATOM	7700	CB	LYS	E	418	-32.702	53.583	41.432	1.00	21.86	E	C
	ATOM	7701	CG	LYS	E	418	-32.627	53.202	39.959	1.00	23.90	E	C
	ATOM	7702	CD	LYS	E	418	-33.674	53.945	39.147	1.00	26.85	E	C
	ATOM	7703	CE	LYS	E	418	-34.029	53.201	37.867	1.00	28.59	E	C
30	ATOM	7704	NZ	LYS	E	418	-34.663	54.106	36.860	1.00	29.13	E	N
	ATOM	7705	C	LYS	E	418	-30.277	53.129	41.647	1.00	20.07	E	C
	ATOM	7706	O	LYS	E	418	-29.727	52.200	41.065	1.00	21.05	E	O
	ATOM	7707	N	TYR	E	419	-29.734	54.338	41.733	1.00	19.86	E	N
	ATOM	7708	CA	TYR	E	419	-28.478	54.645	41.045	1.00	19.55	E	C
35	ATOM	7709	CB	TYR	E	419	-28.498	56.115	40.634	1.00	17.86	E	C
	ATOM	7710	CG	TYR	E	419	-29.744	56.437	39.846	1.00	19.53	E	C
	ATOM	7711	CD1	TYR	E	419	-29.904	55.965	38.546	1.00	19.56	E	C
	ATOM	7712	CE1	TYR	E	419	-31.085	56.175	37.844	1.00	19.90	E	C
	ATOM	7713	CD2	TYR	E	419	-30.798	57.139	40.422	1.00	19.59	E	C
40	ATOM	7714	CE2	TYR	E	419	-31.985	57.354	39.726	1.00	19.16	E	C
	ATOM	7715	CZ	TYR	E	419	-32.121	56.864	38.438	1.00	20.25	E	C
	ATOM	7716	OH	TYR	E	419	-33.302	57.031	37.751	1.00	21.39	E	O
	ATOM	7717	C	TYR	E	419	-27.130	54.294	41.664	1.00	18.99	E	C
	ATOM	7718	O	TYR	E	419	-26.106	54.384	40.986	1.00	19.20	E	O
45	ATOM	7719	N	GLN	E	420	-27.116	53.883	42.926	1.00	17.29	E	N
	ATOM	7720	CA	GLN	E	420	-25.860	53.510	43.573	1.00	16.80	E	C
	ATOM	7721	CB	GLN	E	420	-25.738	54.198	44.935	1.00	20.14	E	C
	ATOM	7722	CG	GLN	E	420	-25.320	55.655	44.848	1.00	23.08	E	C
	ATOM	7723	CD	GLN	E	420	-26.451	56.558	44.399	1.00	27.85	E	C
50	ATOM	7724	OE1	GLN	E	420	-26.370	57.211	43.353	1.00	29.37	E	O
	ATOM	7725	NE2	GLN	E	420	-27.516	56.605	45.191	1.00	26.93	E	N
	ATOM	7726	C	GLN	E	420	-25.744	51.996	43.742	1.00	14.65	E	C
	ATOM	7727	O	GLN	E	420	-26.713	51.319	44.089	1.00	15.31	E	O
	ATOM	7728	N	HIS	E	421	-24.546	51.478	43.484	1.00	12.24	E	N
55	ATOM	7729	CA	HIS	E	421	-24.252	50.053	43.598	1.00	12.61	E	C
	ATOM	7730	CB	HIS	E	421	-23.926	49.466	42.219	1.00	10.50	E	C
	ATOM	7731	CG	HIS	E	421	-25.068	49.524	41.253	1.00	11.42	E	C
	ATOM	7732	CD2	HIS	E	421	-25.674	50.575	40.649	1.00	9.83	E	C
	ATOM	7733	ND1	HIS	E	421	-25.752	48.399	40.841	1.00	11.16	E	N
60	ATOM	7734	CE1	HIS	E	421	-26.731	48.755	40.029	1.00	10.53	E	C
	ATOM	7735	NE2	HIS	E	421	-26.706	50.070	39.896	1.00	10.97	E	N
	ATOM	7736	C	HIS	E	421	-23.046	49.892	44.519	1.00	12.59	E	C
	ATOM	7737	O	HIS	E	421	-22.371	50.872	44.819	1.00	14.34	E	O
	ATOM	7738	N	ALA	E	422	-22.767	48.663	44.951	1.00	13.57	E	N
65	ATOM	7739	CA	ALA	E	422	-21.638	48.410	45.844	1.00	13.65	E	C
	ATOM	7740	CB	ALA	E	422	-22.097	48.524	47.303	1.00	12.91	E	C
	ATOM	7741	C	ALA	E	422	-21.000	47.049	45.609	1.00	13.43	E	C
	ATOM	7742	O	ALA	E	422	-21.678	46.104	45.208	1.00	14.85	E	O

	ATOM	7743	N	GLU	E	423	-19.696	46.952	45.872	1.00	12.69	E	N
	ATOM	7744	CA	GLU	E	423	-18.948	45.704	45.702	1.00	14.54	E	C
	ATOM	7745	CB	GLU	E	423	-17.783	45.906	44.721	1.00	13.83	E	C
	ATOM	7746	CG	GLU	E	423	-18.186	46.393	43.328	1.00	14.91	E	C
5	ATOM	7747	CD	GLU	E	423	-17.034	46.294	42.338	1.00	17.73	E	C
	ATOM	7748	OE1	GLU	E	423	-16.896	45.238	41.674	1.00	18.46	E	O
	ATOM	7749	OE2	GLU	E	423	-16.256	47.269	42.236	1.00	18.75	E	O
	ATOM	7750	C	GLU	E	423	-18.399	45.216	47.051	1.00	14.79	E	C
10	ATOM	7751	O	GLU	E	423	-17.181	45.184	47.271	1.00	16.59	E	O
	ATOM	7752	N	PRO	E	424	-19.293	44.811	47.968	1.00	15.63	E	N
	ATOM	7753	CD	PRO	E	424	-20.759	44.792	47.806	1.00	15.56	E	C
	ATOM	7754	CA	PRO	E	424	-18.871	44.333	49.290	1.00	14.62	E	C
	ATOM	7755	CB	PRO	E	424	-20.187	44.064	50.016	1.00	15.68	E	C
	ATOM	7756	CG	PRO	E	424	-21.218	43.955	48.938	1.00	16.54	E	C
15	ATOM	7757	C	PRO	E	424	-17.945	43.122	49.296	1.00	15.79	E	C
	ATOM	7758	O	PRO	E	424	-18.160	42.148	48.581	1.00	15.27	E	O
	ATOM	7759	N	ARG	E	425	-16.916	43.197	50.134	1.00	16.88	E	N
	ATOM	7760	CA	ARG	E	425	-15.927	42.130	50.271	1.00	16.13	E	C
20	ATOM	7761	CB	ARG	E	425	-14.524	42.752	50.415	1.00	14.53	E	C
	ATOM	7762	CG	ARG	E	425	-13.621	42.563	49.201	1.00	15.51	E	C
	ATOM	7763	CD	ARG	E	425	-13.067	43.870	48.636	1.00	15.66	E	C
	ATOM	7764	NE	ARG	E	425	-14.083	44.632	47.918	1.00	16.51	E	N
	ATOM	7765	CZ	ARG	E	425	-13.844	45.520	46.951	1.00	14.08	E	C
	ATOM	7766	NH1	ARG	E	425	-12.611	45.790	46.544	1.00	11.20	E	N
25	ATOM	7767	NH2	ARG	E	425	-14.859	46.165	46.400	1.00	13.10	E	N
	ATOM	7768	C	ARG	E	425	-16.244	41.227	51.478	1.00	16.75	E	C
	ATOM	7769	O	ARG	E	425	-16.449	41.714	52.588	1.00	16.20	E	O
	ATOM	7770	N	LEU	E	426	-16.300	39.916	51.237	1.00	17.26	E	N
30	ATOM	7771	CA	LEU	E	426	-16.568	38.919	52.272	1.00	16.28	E	C
	ATOM	7772	CB	LEU	E	426	-17.571	37.866	51.779	1.00	15.41	E	C
	ATOM	7773	CG	LEU	E	426	-19.026	38.284	51.576	1.00	15.33	E	C
	ATOM	7774	CD1	LEU	E	426	-19.788	37.172	50.855	1.00	13.88	E	C
	ATOM	7775	CD2	LEU	E	426	-19.657	38.582	52.930	1.00	13.36	E	C
	ATOM	7776	C	LEU	E	426	-15.238	38.245	52.580	1.00	16.65	E	C
35	ATOM	7777	O	LEU	E	426	-14.356	38.208	51.727	1.00	16.79	E	O
	ATOM	7778	N	SER	E	427	-15.100	37.696	53.786	1.00	16.47	E	N
	ATOM	7779	CA	SER	E	427	-13.843	37.070	54.192	1.00	17.18	E	C
	ATOM	7780	CB	SER	E	427	-13.488	37.483	55.629	1.00	16.66	E	C
40	ATOM	7781	OG	SER	E	427	-13.398	38.888	55.761	1.00	18.30	E	O
	ATOM	7782	C	SER	E	427	-13.727	35.562	54.110	1.00	15.95	E	C
	ATOM	7783	O	SER	E	427	-14.651	34.836	54.456	1.00	18.31	E	O
	ATOM	7784	N	ILE	E	428	-12.561	35.118	53.651	1.00	16.49	E	N
	ATOM	7785	CA	ILE	E	428	-12.196	33.708	53.562	1.00	17.80	E	C
	ATOM	7786	CB	ILE	E	428	-12.196	33.185	52.106	1.00	16.65	E	C
45	ATOM	7787	CG2	ILE	E	428	-11.353	31.916	51.997	1.00	15.60	E	C
	ATOM	7788	CG1	ILE	E	428	-13.633	32.891	51.663	1.00	15.61	E	C
	ATOM	7789	CD1	ILE	E	428	-14.273	31.659	52.313	1.00	13.46	E	C
	ATOM	7790	C	ILE	E	428	-10.774	33.797	54.094	1.00	18.74	E	C
50	ATOM	7791	O	ILE	E	428	-9.940	34.469	53.496	1.00	20.20	E	O
	ATOM	7792	N	TYR	E	429	-10.503	33.140	55.220	1.00	21.26	E	N
	ATOM	7793	CA	TYR	E	429	-9.187	33.222	55.869	1.00	22.89	E	C
	ATOM	7794	CB	TYR	E	429	-9.354	33.229	57.391	1.00	21.85	E	C
	ATOM	7795	CG	TYR	E	429	-10.382	34.215	57.893	1.00	21.00	E	C
55	ATOM	7796	CD1	TYR	E	429	-11.730	33.871	57.958	1.00	21.71	E	C
	ATOM	7797	CE1	TYR	E	429	-12.679	34.778	58.408	1.00	20.28	E	C
	ATOM	7798	CD2	TYR	E	429	-10.008	35.494	58.295	1.00	19.38	E	C
	ATOM	7799	CE2	TYR	E	429	-10.947	36.407	58.746	1.00	20.13	E	C
	ATOM	7800	CZ	TYR	E	429	-12.280	36.042	58.801	1.00	21.25	E	C
60	ATOM	7801	OH	TYR	E	429	-13.213	36.945	59.256	1.00	22.96	E	O
	ATOM	7802	C	TYR	E	429	-8.122	32.200	55.540	1.00	23.93	E	C
	ATOM	7803	O	TYR	E	429	-6.936	32.473	55.727	1.00	25.07	E	O
	ATOM	7804	N	GLY	E	430	-8.522	31.024	55.075	1.00	24.46	E	N
	ATOM	7805	CA	GLY	E	430	-7.532	30.005	54.779	1.00	25.33	E	C
65	ATOM	7806	C	GLY	E	430	-7.115	29.349	56.084	1.00	25.93	E	C
	ATOM	7807	O	GLY	E	430	-6.045	28.745	56.187	1.00	26.64	E	O
	ATOM	7808	N	ARG	E	431	-7.971	29.485	57.090	1.00	26.37	E	N
	ATOM	7809	CA	ARG	E	431	-7.727	28.906	58.404	1.00	28.37	E	C
	ATOM	7810	CB	ARG	E	431	-8.455	29.721	59.475	1.00	30.05	E	C

	ATOM	7811	CG	ARG	E	431	-8.194	29.271	60.910	1.00	34.27	E	C
	ATOM	7812	CD	ARG	E	431	-9.300	29.748	61.845	1.00	37.66	E	C
	ATOM	7813	NE	ARG	E	431	-10.617	29.296	61.395	1.00	42.62	E	N
	ATOM	7814	CZ	ARG	E	431	-11.586	30.102	60.963	1.00	43.49	E	C
5	ATOM	7815	NH1	ARG	E	431	-11.393	31.418	60.921	1.00	43.78	E	N
	ATOM	7816	NH2	ARG	E	431	-12.749	29.591	60.574	1.00	43.62	E	N
	ATOM	7817	C	ARG	E	431	-8.250	27.477	58.394	1.00	29.16	E	C
	ATOM	7818	O	ARG	E	431	-7.662	26.584	58.996	1.00	28.79	E	O
	ATOM	7819	N	SER	E	432	-9.362	27.269	57.696	1.00	30.88	E	N
10	ATOM	7820	CA	SER	E	432	-9.972	25.950	57.590	1.00	32.58	E	C
	ATOM	7821	CB	SER	E	432	-11.125	25.820	58.587	1.00	32.73	E	C
	ATOM	7822	OG	SER	E	432	-11.921	24.690	58.275	1.00	33.63	E	O
	ATOM	7823	C	SER	E	432	-10.494	25.718	56.172	1.00	34.46	E	C
	ATOM	7824	O	SER	E	432	-10.953	26.651	55.510	1.00	35.23	E	O
15	ATOM	7825	N	PRO	E	433	-10.445	24.462	55.694	1.00	34.21	E	N
	ATOM	7826	CD	PRO	E	433	-9.939	23.281	56.414	1.00	33.94	E	C
	ATOM	7827	CA	PRO	E	433	-10.914	24.119	54.344	1.00	34.25	E	C
	ATOM	7828	CB	PRO	E	433	-10.328	22.733	54.106	1.00	34.36	E	C
	ATOM	7829	CG	PRO	E	433	-10.237	22.141	55.468	1.00	34.39	E	C
20	ATOM	7830	C	PRO	E	433	-12.430	24.134	54.164	1.00	33.31	E	C
	ATOM	7831	O	PRO	E	433	-12.926	24.168	53.032	1.00	33.30	E	O
	ATOM	7832	N	ASP	E	434	-13.166	24.113	55.271	1.00	31.56	E	N
	ATOM	7833	CA	ASP	E	434	-14.624	24.122	55.196	1.00	29.98	E	C
	ATOM	7834	CB	ASP	E	434	-15.210	23.306	56.357	1.00	33.65	E	C
25	ATOM	7835	CG	ASP	E	434	-15.237	24.076	57.667	1.00	37.91	E	C
	ATOM	7836	OD1	ASP	E	434	-14.405	24.990	57.854	1.00	41.02	E	O
	ATOM	7837	OD2	ASP	E	434	-16.098	23.763	58.516	1.00	40.78	E	O
	ATOM	7838	C	ASP	E	434	-15.230	25.533	55.173	1.00	27.37	E	C
	ATOM	7839	O	ASP	E	434	-16.451	25.689	55.172	1.00	25.83	E	O
30	ATOM	7840	N	GLU	E	435	-14.377	26.554	55.137	1.00	24.40	E	N
	ATOM	7841	CA	GLU	E	435	-14.842	27.939	55.120	1.00	24.19	E	C
	ATOM	7842	CB	GLU	E	435	-13.643	28.886	55.159	1.00	24.56	E	C
	ATOM	7843	CG	GLU	E	435	-12.882	28.848	56.471	1.00	24.88	E	C
	ATOM	7844	CD	GLU	E	435	-11.896	29.987	56.604	1.00	24.93	E	C
35	ATOM	7845	OE1	GLU	E	435	-10.729	29.714	56.946	1.00	24.40	E	O
	ATOM	7846	OE2	GLU	E	435	-12.290	31.152	56.369	1.00	26.42	E	O
	ATOM	7847	C	GLU	E	435	-15.705	28.254	53.900	1.00	22.83	E	C
	ATOM	7848	O	GLU	E	435	-16.735	28.932	54.003	1.00	22.60	E	O
	ATOM	7849	N	TRP	E	436	-15.277	27.758	52.742	1.00	22.32	E	N
40	ATOM	7850	CA	TRP	E	436	-16.006	27.978	51.498	1.00	21.24	E	C
	ATOM	7851	CB	TRP	E	436	-15.209	27.409	50.318	1.00	18.90	E	C
	ATOM	7852	CG	TRP	E	436	-14.106	28.322	49.835	1.00	15.97	E	C
	ATOM	7853	CD2	TRP	E	436	-14.261	29.515	49.055	1.00	15.22	E	C
	ATOM	7854	CE2	TRP	E	436	-12.965	30.028	48.808	1.00	14.70	E	C
45	ATOM	7855	CE3	TRP	E	436	-15.369	30.199	48.539	1.00	15.75	E	C
	ATOM	7856	CD1	TRP	E	436	-12.763	28.166	50.027	1.00	17.18	E	C
	ATOM	7857	NE1	TRP	E	436	-12.068	29.188	49.412	1.00	14.44	E	N
	ATOM	7858	CZ2	TRP	E	436	-12.748	31.194	48.066	1.00	15.52	E	C
	ATOM	7859	CZ3	TRP	E	436	-15.154	31.360	47.798	1.00	16.08	E	C
50	ATOM	7860	CH2	TRP	E	436	-13.850	31.846	47.569	1.00	15.01	E	C
	ATOM	7861	C	TRP	E	436	-17.378	27.312	51.589	1.00	21.25	E	C
	ATOM	7862	O	TRP	E	436	-18.401	27.894	51.216	1.00	20.48	E	O
	ATOM	7863	N	SER	E	437	-17.396	26.088	52.101	1.00	21.78	E	N
	ATOM	7864	CA	SER	E	437	-18.644	25.358	52.248	1.00	22.50	E	C
55	ATOM	7865	CB	SER	E	437	-18.385	23.976	52.833	1.00	22.38	E	C
	ATOM	7866	OG	SER	E	437	-19.591	23.436	53.338	1.00	26.68	E	O
	ATOM	7867	C	SER	E	437	-19.607	26.100	53.158	1.00	22.17	E	C
	ATOM	7868	O	SER	E	437	-20.808	26.160	52.888	1.00	24.15	E	O
	ATOM	7869	N	LYS	E	438	-19.076	26.660	54.240	1.00	21.62	E	N
60	ATOM	7870	CA	LYS	E	438	-19.894	27.395	55.199	1.00	22.49	E	C
	ATOM	7871	CB	LYS	E	438	-19.093	27.663	56.479	1.00	23.37	E	C
	ATOM	7872	CG	LYS	E	438	-18.716	26.419	57.260	1.00	24.95	E	C
	ATOM	7873	CD	LYS	E	438	-18.983	26.619	58.739	1.00	28.85	E	C
	ATOM	7874	CE	LYS	E	438	-17.890	26.007	59.596	1.00	32.81	E	C
65	ATOM	7875	NZ	LYS	E	438	-18.207	26.123	61.050	1.00	34.72	E	N
	ATOM	7876	C	LYS	E	438	-20.398	28.718	54.638	1.00	20.63	E	C
	ATOM	7877	O	LYS	E	438	-21.572	29.056	54.789	1.00	20.39	E	O
	ATOM	7878	N	LEU	E	439	-19.504	29.466	53.995	1.00	18.98	E	N

	ATOM	7879	CA	LEU	E	439	-19.863	30.765	53.437	1.00	17.63	E	C
	ATOM	7880	CB	LEU	E	439	-18.604	31.490	52.946	1.00	16.78	E	C
	ATOM	7881	CG	LEU	E	439	-18.775	32.942	52.483	1.00	16.76	E	C
	ATOM	7882	CD1	LEU	E	439	-19.588	33.739	53.495	1.00	16.94	E	C
5	ATOM	7883	CD2	LEU	E	439	-17.403	33.566	52.288	1.00	17.46	E	C
	ATOM	7884	C	LEU	E	439	-20.870	30.642	52.304	1.00	18.26	E	C
	ATOM	7885	O	LEU	E	439	-21.833	31.403	52.236	1.00	18.60	E	O
	ATOM	7886	N	SER	E	440	-20.652	29.678	51.414	1.00	19.12	E	N
10	ATOM	7887	CA	SER	E	440	-21.560	29.489	50.287	1.00	21.10	E	C
	ATOM	7888	CB	SER	E	440	-21.051	28.378	49.354	1.00	19.46	E	C
	ATOM	7889	OG	SER	E	440	-21.006	27.116	49.991	1.00	21.82	E	O
	ATOM	7890	C	SER	E	440	-22.959	29.171	50.787	1.00	21.09	E	C
	ATOM	7891	O	SER	E	440	-23.941	29.678	50.246	1.00	22.15	E	O
	ATOM	7892	N	SER	E	441	-23.048	28.346	51.829	1.00	22.09	E	N
15	ATOM	7893	CA	SER	E	441	-24.339	27.980	52.417	1.00	21.89	E	C
	ATOM	7894	CB	SER	E	441	-24.155	26.885	53.477	1.00	22.90	E	C
	ATOM	7895	OG	SER	E	441	-23.542	25.728	52.929	1.00	26.47	E	O
	ATOM	7896	C	SER	E	441	-24.991	29.206	53.063	1.00	21.02	E	C
	ATOM	7897	O	SER	E	441	-26.209	29.394	52.988	1.00	21.47	E	O
20	ATOM	7898	N	TRP	E	442	-24.175	30.036	53.706	1.00	20.15	E	N
	ATOM	7899	CA	TRP	E	442	-24.676	31.246	54.347	1.00	20.05	E	C
	ATOM	7900	CB	TRP	E	442	-23.522	31.976	55.054	1.00	20.56	E	C
	ATOM	7901	CG	TRP	E	442	-23.874	33.350	55.585	1.00	22.55	E	C
	ATOM	7902	CD2	TRP	E	442	-23.602	34.616	54.957	1.00	24.13	E	C
25	ATOM	7903	CE2	TRP	E	442	-24.122	35.626	55.804	1.00	22.91	E	C
	ATOM	7904	CE3	TRP	E	442	-22.973	34.994	53.758	1.00	23.44	E	C
	ATOM	7905	CD1	TRP	E	442	-24.523	33.638	56.754	1.00	22.35	E	C
	ATOM	7906	NE1	TRP	E	442	-24.676	35.003	56.891	1.00	23.68	E	N
	ATOM	7907	CZ2	TRP	E	442	-24.030	36.990	55.495	1.00	22.63	E	C
30	ATOM	7908	CZ3	TRP	E	442	-22.882	36.356	53.449	1.00	24.34	E	C
	ATOM	7909	CH2	TRP	E	442	-23.410	37.336	54.316	1.00	22.42	E	C
	ATOM	7910	C	TRP	E	442	-25.293	32.145	53.279	1.00	19.67	E	C
	ATOM	7911	O	TRP	E	442	-26.407	32.641	53.429	1.00	18.68	E	O
	ATOM	7912	N	PHE	E	443	-24.555	32.333	52.190	1.00	21.60	E	N
35	ATOM	7913	CA	PHE	E	443	-24.992	33.173	51.079	1.00	22.21	E	C
	ATOM	7914	CB	PHE	E	443	-23.850	33.298	50.063	1.00	23.43	E	C
	ATOM	7915	CG	PHE	E	443	-24.046	34.395	49.055	1.00	24.36	E	C
	ATOM	7916	CD1	PHE	E	443	-24.773	34.168	47.888	1.00	25.90	E	C
	ATOM	7917	CD2	PHE	E	443	-23.496	35.651	49.264	1.00	24.24	E	C
40	ATOM	7918	CE1	PHE	E	443	-24.946	35.181	46.944	1.00	24.92	E	C
	ATOM	7919	CE2	PHE	E	443	-23.665	36.667	48.325	1.00	24.18	E	C
	ATOM	7920	CZ	PHE	E	443	-24.390	36.431	47.167	1.00	24.52	E	C
	ATOM	7921	C	PHE	E	443	-26.254	32.653	50.387	1.00	22.21	E	C
	ATOM	7922	O	PHE	E	443	-27.227	33.397	50.194	1.00	22.07	E	O
45	ATOM	7923	N	VAL	E	444	-26.235	31.374	50.020	1.00	21.83	E	N
	ATOM	7924	CA	VAL	E	444	-27.361	30.755	49.329	1.00	22.82	E	C
	ATOM	7925	CB	VAL	E	444	-26.973	29.364	48.794	1.00	23.84	E	C
	ATOM	7926	CG1	VAL	E	444	-28.155	28.738	48.073	1.00	23.95	E	C
	ATOM	7927	CG2	VAL	E	444	-25.783	29.481	47.856	1.00	22.75	E	C
50	ATOM	7928	C	VAL	E	444	-28.605	30.609	50.195	1.00	24.10	E	C
	ATOM	7929	O	VAL	E	444	-29.686	31.066	49.827	1.00	22.51	E	O
	ATOM	7930	N	ARG	E	445	-28.451	29.966	51.348	1.00	25.57	E	N
	ATOM	7931	CA	ARG	E	445	-29.575	29.758	52.254	1.00	26.40	E	C
	ATOM	7932	CB	ARG	E	445	-29.115	28.946	53.462	1.00	28.34	E	C
55	ATOM	7933	CG	ARG	E	445	-29.207	27.446	53.252	1.00	32.85	E	C
	ATOM	7934	CD	ARG	E	445	-28.029	26.716	53.873	1.00	37.34	E	C
	ATOM	7935	NE	ARG	E	445	-27.857	25.380	53.312	1.00	40.19	E	N
	ATOM	7936	CZ	ARG	E	445	-27.472	24.321	54.013	1.00	43.26	E	C
	ATOM	7937	NH1	ARG	E	445	-27.215	24.435	55.307	1.00	44.45	E	N
60	ATOM	7938	NH2	ARG	E	445	-27.353	23.144	53.420	1.00	45.98	E	N
	ATOM	7939	C	ARG	E	445	-30.253	31.049	52.719	1.00	25.51	E	C
	ATOM	7940	O	ARG	E	445	-31.457	31.071	52.963	1.00	24.80	E	O
	ATOM	7941	N	ASN	E	446	-29.490	32.130	52.840	1.00	25.25	E	N
	ATOM	7942	CA	ASN	E	446	-30.074	33.391	53.278	1.00	24.91	E	C
65	ATOM	7943	CB	ASN	E	446	-29.056	34.189	54.094	1.00	25.75	E	C
	ATOM	7944	CG	ASN	E	446	-28.942	33.691	55.526	1.00	25.08	E	C
	ATOM	7945	OD1	ASN	E	446	-27.976	33.019	55.889	1.00	23.98	E	O
	ATOM	7946	ND2	ASN	E	446	-29.934	34.016	56.345	1.00	25.64	E	N

	ATOM	7947	C	ASN	E	446	-30.551	34.215	52.092	1.00	25.27	E	C
	ATOM	7948	O	ASN	E	446	-31.040	35.336	52.258	1.00	22.98	E	O
	ATOM	7949	N	ARG	E	447	-30.411	33.646	50.897	1.00	26.84	E	N
	ATOM	7950	CA	ARG	E	447	-30.821	34.307	49.663	1.00	28.40	E	C
5	ATOM	7951	CB	ARG	E	447	-32.349	34.356	49.550	1.00	29.42	E	C
	ATOM	7952	CG	ARG	E	447	-33.054	33.103	50.047	1.00	35.61	E	C
	ATOM	7953	CD	ARG	E	447	-33.372	32.135	48.913	1.00	40.23	E	C
	ATOM	7954	NE	ARG	E	447	-34.242	32.743	47.907	1.00	43.90	E	N
	ATOM	7955	CZ	ARG	E	447	-34.333	32.326	46.648	1.00	44.37	E	C
10	ATOM	7956	NH1	ARG	E	447	-33.609	31.294	46.232	1.00	45.84	E	N
	ATOM	7957	NH2	ARG	E	447	-35.145	32.945	45.802	1.00	46.18	E	N
	ATOM	7958	C	ARG	E	447	-30.264	35.716	49.619	1.00	28.49	E	C
	ATOM	7959	O	ARG	E	447	-31.004	36.685	49.441	1.00	28.66	E	O
	ATOM	7960	N	ILE	E	448	-28.956	35.833	49.798	1.00	29.01	E	N
15	ATOM	7961	CA	ILE	E	448	-28.319	37.139	49.765	1.00	30.24	E	C
	ATOM	7962	CB	ILE	E	448	-27.001	37.136	50.570	1.00	29.64	E	C
	ATOM	7963	CG2	ILE	E	448	-26.172	38.359	50.241	1.00	29.70	E	C
	ATOM	7964	CG1	ILE	E	448	-27.309	37.122	52.065	1.00	28.82	E	C
	ATOM	7965	CD1	ILE	E	448	-26.318	36.334	52.848	1.00	29.55	E	C
20	ATOM	7966	C	ILE	E	448	-28.036	37.482	48.307	1.00	30.69	E	C
	ATOM	7967	O	ILE	E	448	-27.099	36.966	47.704	1.00	32.98	E	O
	ATOM	7968	N	TYR	E	449	-28.875	38.331	47.735	1.00	29.09	E	N
	ATOM	7969	CA	TYR	E	449	-28.708	38.741	46.355	1.00	27.59	E	C
	ATOM	7970	CB	TYR	E	449	-29.235	37.669	45.388	1.00	28.37	E	C
25	ATOM	7971	CG	TYR	E	449	-29.465	38.225	44.002	1.00	29.61	E	C
	ATOM	7972	CD1	TYR	E	449	-28.427	38.282	43.072	1.00	31.11	E	C
	ATOM	7973	CE1	TYR	E	449	-28.598	38.910	41.839	1.00	32.40	E	C
	ATOM	7974	CD2	TYR	E	449	-30.685	38.801	43.659	1.00	30.07	E	C
	ATOM	7975	CE2	TYR	E	449	-30.867	39.430	42.433	1.00	32.26	E	C
30	ATOM	7976	CZ	TYR	E	449	-29.820	39.485	41.530	1.00	32.63	E	C
	ATOM	7977	OH	TYR	E	449	-29.995	40.135	40.331	1.00	36.25	E	O
	ATOM	7978	C	TYR	E	449	-29.479	40.032	46.155	1.00	26.42	E	C
	ATOM	7979	O	TYR	E	449	-30.682	40.087	46.395	1.00	27.92	E	O
	ATOM	7980	N	SER	E	450	-28.782	41.074	45.727	1.00	24.49	E	N
35	ATOM	7981	CA	SER	E	450	-29.416	42.363	45.484	1.00	24.35	E	C
	ATOM	7982	CB	SER	E	450	-28.905	43.416	46.477	1.00	23.75	E	C
	ATOM	7983	OG	SER	E	450	-29.212	44.735	46.046	1.00	26.23	E	O
	ATOM	7984	C	SER	E	450	-29.046	42.762	44.066	1.00	23.54	E	C
	ATOM	7985	O	SER	E	450	-27.949	42.456	43.594	1.00	23.94	E	O
40	ATOM	7986	N	SER	E	451	-29.963	43.427	43.381	1.00	21.87	E	N
	ATOM	7987	CA	SER	E	451	-29.687	43.843	42.024	1.00	23.93	E	C
	ATOM	7988	CB	SER	E	451	-30.976	44.274	41.344	1.00	22.19	E	C
	ATOM	7989	OG	SER	E	451	-31.463	45.442	41.963	1.00	27.69	E	O
	ATOM	7990	C	SER	E	451	-28.685	44.995	42.032	1.00	23.61	E	C
45	ATOM	7991	O	SER	E	451	-28.174	45.383	40.982	1.00	27.00	E	O
	ATOM	7992	N	ASN	E	452	-28.397	45.535	43.215	1.00	20.72	E	N
	ATOM	7993	CA	ASN	E	452	-27.448	46.639	43.334	1.00	17.97	E	C
	ATOM	7994	CB	ASN	E	452	-28.103	47.844	44.001	1.00	16.34	E	C
	ATOM	7995	CG	ASN	E	452	-28.994	48.614	43.057	1.00	16.61	E	C
50	ATOM	7996	OD1	ASN	E	452	-29.938	48.061	42.498	1.00	16.20	E	O
	ATOM	7997	ND2	ASN	E	452	-28.705	49.903	42.877	1.00	12.48	E	N
	ATOM	7998	C	ASN	E	452	-26.185	46.273	44.104	1.00	17.28	E	C
	ATOM	7999	O	ASN	E	452	-25.506	47.158	44.627	1.00	17.49	E	O
	ATOM	8000	N	MET	E	453	-25.869	44.978	44.157	1.00	16.98	E	N
55	ATOM	8001	CA	MET	E	453	-24.680	44.493	44.854	1.00	15.55	E	C
	ATOM	8002	CB	MET	E	453	-25.046	44.017	46.260	1.00	16.23	E	C
	ATOM	8003	CG	MET	E	453	-25.121	45.096	47.311	1.00	16.98	E	C
	ATOM	8004	SD	MET	E	453	-25.460	44.388	48.945	1.00	22.07	E	S
	ATOM	8005	CE	MET	E	453	-25.061	45.793	49.967	1.00	19.45	E	C
60	ATOM	8006	C	MET	E	453	-24.007	43.326	44.141	1.00	15.16	E	C
	ATOM	8007	O	MET	E	453	-24.682	42.404	43.711	1.00	15.89	E	O
	ATOM	8008	N	THR	E	454	-22.681	43.376	44.007	1.00	14.53	E	N
	ATOM	8009	CA	THR	E	454	-21.916	42.273	43.417	1.00	14.22	E	C
	ATOM	8010	CB	THR	E	454	-21.216	42.651	42.063	1.00	13.38	E	C
65	ATOM	8011	OG1	THR	E	454	-20.454	43.855	42.199	1.00	12.85	E	O
	ATOM	8012	CG2	THR	E	454	-22.264	42.835	40.977	1.00	12.00	E	C
	ATOM	8013	C	THR	E	454	-20.899	41.920	44.502	1.00	14.08	E	C
	ATOM	8014	O	THR	E	454	-20.553	42.774	45.318	1.00	16.05	E	O

	ATOM	8015	N	TRP	E	455	-20.415	40.683	44.519	1.00	15.55	E	N
	ATOM	8016	CA	TRP	E	455	-19.516	40.253	45.583	1.00	15.29	E	C
	ATOM	8017	CB	TRP	E	455	-20.203	39.120	46.364	1.00	16.31	E	C
5	ATOM	8018	CG	TRP	E	455	-21.542	39.532	46.896	1.00	15.50	E	C
	ATOM	8019	CD2	TRP	E	455	-21.817	40.079	48.192	1.00	15.59	E	C
	ATOM	8020	CE2	TRP	E	455	-23.185	40.426	48.219	1.00	15.39	E	C
	ATOM	8021	CE3	TRP	E	455	-21.036	40.314	49.331	1.00	15.43	E	C
	ATOM	8022	CD1	TRP	E	455	-22.724	39.559	46.212	1.00	14.38	E	C
10	ATOM	8023	NE1	TRP	E	455	-23.716	40.098	46.999	1.00	16.89	E	N
	ATOM	8024	CZ2	TRP	E	455	-23.790	40.997	49.342	1.00	16.04	E	C
	ATOM	8025	CZ3	TRP	E	455	-21.641	40.880	50.449	1.00	17.12	E	C
	ATOM	8026	CH2	TRP	E	455	-23.004	41.217	50.443	1.00	16.00	E	C
	ATOM	8027	C	TRP	E	455	-18.092	39.834	45.246	1.00	17.00	E	C
15	ATOM	8028	O	TRP	E	455	-17.819	39.309	44.174	1.00	15.67	E	O
	ATOM	8029	N	MET	E	456	-17.194	40.069	46.202	1.00	16.71	E	N
	ATOM	8030	CA	MET	E	456	-15.786	39.709	46.078	1.00	16.73	E	C
	ATOM	8031	CB	MET	E	456	-14.918	40.948	45.879	1.00	16.82	E	C
	ATOM	8032	CG	MET	E	456	-15.278	41.781	44.675	1.00	16.47	E	C
	ATOM	8033	SD	MET	E	456	-14.177	43.201	44.526	1.00	20.47	E	S
20	ATOM	8034	CE	MET	E	456	-12.572	42.458	44.797	1.00	16.05	E	C
	ATOM	8035	C	MET	E	456	-15.378	39.030	47.376	1.00	15.57	E	C
	ATOM	8036	O	MET	E	456	-16.104	39.094	48.365	1.00	14.46	E	O
	ATOM	8037	N	ILE	E	457	-14.217	38.385	47.368	1.00	16.87	E	N
25	ATOM	8038	CA	ILE	E	457	-13.712	37.706	48.555	1.00	16.96	E	C
	ATOM	8039	CB	ILE	E	457	-13.585	36.171	48.318	1.00	18.41	E	C
	ATOM	8040	CG2	ILE	E	457	-12.512	35.569	49.219	1.00	15.65	E	C
	ATOM	8041	CG1	ILE	E	457	-14.917	35.493	48.644	1.00	19.53	E	C
	ATOM	8042	CD1	ILE	E	457	-15.521	34.793	47.487	1.00	21.32	E	C
30	ATOM	8043	C	ILE	E	457	-12.355	38.285	48.931	1.00	17.28	E	C
	ATOM	8044	O	ILE	E	457	-11.484	38.459	48.084	1.00	14.75	E	O
	ATOM	8045	N	GLN	E	458	-12.184	38.606	50.209	1.00	17.38	E	N
	ATOM	8046	CA	GLN	E	458	-10.916	39.150	50.668	1.00	16.69	E	C
	ATOM	8047	CB	GLN	E	458	-11.131	40.473	51.407	1.00	17.81	E	C
35	ATOM	8048	CG	GLN	E	458	-11.970	40.344	52.657	1.00	18.92	E	C
	ATOM	8049	CD	GLN	E	458	-12.106	41.649	53.415	1.00	21.20	E	C
	ATOM	8050	OE1	GLN	E	458	-11.914	42.734	52.863	1.00	20.75	E	O
	ATOM	8051	NE2	GLN	E	458	-12.445	41.547	54.696	1.00	20.32	E	N
	ATOM	8052	C	GLN	E	458	-10.269	38.147	51.601	1.00	16.18	E	C
40	ATOM	8053	O	GLN	E	458	-10.941	37.512	52.414	1.00	16.16	E	O
	ATOM	8054	N	VAL	E	459	-8.968	37.968	51.461	1.00	15.64	E	N
	ATOM	8055	CA	VAL	E	459	-8.282	37.064	52.342	1.00	15.17	E	C
	ATOM	8056	CB	VAL	E	459	-7.767	35.777	51.598	1.00	15.62	E	C
	ATOM	8057	CG1	VAL	E	459	-8.361	35.699	50.214	1.00	14.24	E	C
45	ATOM	8058	CG2	VAL	E	459	-6.259	35.718	51.571	1.00	14.61	E	C
	ATOM	8059	C	VAL	E	459	-7.171	37.848	53.031	1.00	16.94	E	C
	ATOM	8060	O	VAL	E	459	-6.203	38.287	52.406	1.00	16.38	E	O
	ATOM	8061	N	PRO	E	460	-7.347	38.097	54.343	1.00	18.72	E	N
	ATOM	8062	CD	PRO	E	460	-8.542	37.709	55.120	1.00	17.32	E	C
50	ATOM	8063	CA	PRO	E	460	-6.381	38.836	55.163	1.00	16.62	E	C
	ATOM	8064	CB	PRO	E	460	-7.048	38.886	56.538	1.00	17.31	E	C
	ATOM	8065	CG	PRO	E	460	-8.521	38.671	56.259	1.00	18.74	E	C
	ATOM	8066	C	PRO	E	460	-5.022	38.146	55.194	1.00	16.93	E	C
	ATOM	8067	O	PRO	E	460	-4.938	36.922	55.203	1.00	17.33	E	O
55	ATOM	8068	N	ARG	E	461	-3.954	38.932	55.189	1.00	17.19	E	N
	ATOM	8069	CA	ARG	E	461	-2.616	38.367	55.213	1.00	17.55	E	C
	ATOM	8070	CB	ARG	E	461	-1.642	39.317	54.508	1.00	15.77	E	C
	ATOM	8071	CG	ARG	E	461	-2.139	39.817	53.164	1.00	14.15	E	C
	ATOM	8072	CD	ARG	E	461	-1.038	40.498	52.367	1.00	14.99	E	C
60	ATOM	8073	NE	ARG	E	461	-0.802	41.878	52.795	1.00	15.50	E	N
	ATOM	8074	CZ	ARG	E	461	-1.591	42.908	52.508	1.00	15.22	E	C
	ATOM	8075	NH1	ARG	E	461	-2.688	42.743	51.781	1.00	16.37	E	N
	ATOM	8076	NH2	ARG	E	461	-1.274	44.115	52.942	1.00	18.75	E	N
	ATOM	8077	C	ARG	E	461	-2.188	38.134	56.666	1.00	19.51	E	C
65	ATOM	8078	O	ARG	E	461	-1.272	38.791	57.179	1.00	21.67	E	O
	ATOM	8079	N	ILE	E	462	-2.859	37.198	57.329	1.00	20.40	E	N
	ATOM	8080	CA	ILE	E	462	-2.556	36.900	58.726	1.00	19.51	E	C
	ATOM	8081	CB	ILE	E	462	-3.768	37.207	59.642	1.00	18.14	E	C
	ATOM	8082	CG2	ILE	E	462	-4.128	38.675	59.541	1.00	16.17	E	C

	ATOM	8083	CG1	ILE	E	462	-4.961	36.325	59.263	1.00	17.94	E	C
	ATOM	8084	CD1	ILE	E	462	-6.247	36.643	60.034	1.00	16.66	E	C
	ATOM	8085	C	ILE	E	462	-2.112	35.463	58.967	1.00	20.59	E	C
	ATOM	8086	O	ILE	E	462	-2.570	34.814	59.913	1.00	21.61	E	O
5	ATOM	8087	N	TYR	E	463	-1.222	34.964	58.116	1.00	20.03	E	N
	ATOM	8088	CA	TYR	E	463	-0.723	33.608	58.273	1.00	21.12	E	C
	ATOM	8089	CB	TYR	E	463	0.239	33.245	57.140	1.00	20.35	E	C
	ATOM	8090	CG	TYR	E	463	1.230	32.165	57.529	1.00	19.95	E	C
	ATOM	8091	CD1	TYR	E	463	0.871	30.816	57.494	1.00	18.62	E	C
10	ATOM	8092	CE1	TYR	E	463	1.757	29.825	57.904	1.00	18.83	E	C
	ATOM	8093	CD2	TYR	E	463	2.510	32.496	57.980	1.00	19.54	E	C
	ATOM	8094	CE2	TYR	E	463	3.404	31.517	58.391	1.00	18.65	E	C
	ATOM	8095	CZ	TYR	E	463	3.021	30.185	58.353	1.00	20.46	E	C
	ATOM	8096	OH	TYR	E	463	3.900	29.218	58.780	1.00	22.40	E	O
15	ATOM	8097	C	TYR	E	463	0.016	33.497	59.600	1.00	23.03	E	C
	ATOM	8098	O	TYR	E	463	-0.078	32.479	60.288	1.00	22.98	E	O
	ATOM	8099	N	ASP	E	464	0.758	34.547	59.947	1.00	23.99	E	N
	ATOM	8100	CA	ASP	E	464	1.528	34.573	61.186	1.00	25.03	E	C
	ATOM	8101	CB	ASP	E	464	2.328	35.881	61.296	1.00	25.49	E	C
20	ATOM	8102	CG	ASP	E	464	1.468	37.126	61.108	1.00	29.16	E	C
	ATOM	8103	OD1	ASP	E	464	1.905	38.214	61.533	1.00	31.14	E	O
	ATOM	8104	OD2	ASP	E	464	0.361	37.033	60.540	1.00	32.87	E	O
	ATOM	8105	C	ASP	E	464	0.635	34.395	62.412	1.00	25.79	E	C
	ATOM	8106	O	ASP	E	464	1.018	33.739	63.381	1.00	26.54	E	O
25	ATOM	8107	N	VAL	E	465	-0.557	34.976	62.368	1.00	25.77	E	N
	ATOM	8108	CA	VAL	E	465	-1.490	34.860	63.475	1.00	26.13	E	C
	ATOM	8109	CB	VAL	E	465	-2.706	35.785	63.267	1.00	24.66	E	C
	ATOM	8110	CG1	VAL	E	465	-3.773	35.488	64.295	1.00	25.66	E	C
	ATOM	8111	CG2	VAL	E	465	-2.271	37.235	63.369	1.00	24.13	E	C
30	ATOM	8112	C	VAL	E	465	-1.958	33.408	63.605	1.00	28.87	E	C
	ATOM	8113	O	VAL	E	465	-1.918	32.837	64.696	1.00	29.28	E	O
	ATOM	8114	N	PHE	E	466	-2.383	32.813	62.488	1.00	30.43	E	N
	ATOM	8115	CA	PHE	E	466	-2.862	31.428	62.470	1.00	30.05	E	C
	ATOM	8116	CB	PHE	E	466	-3.443	31.077	61.095	1.00	30.37	E	C
35	ATOM	8117	CG	PHE	E	466	-4.735	31.779	60.781	1.00	30.78	E	C
	ATOM	8118	CD1	PHE	E	466	-5.708	31.950	61.759	1.00	30.60	E	C
	ATOM	8119	CD2	PHE	E	466	-4.982	32.266	59.500	1.00	30.86	E	C
	ATOM	8120	CE1	PHE	E	466	-6.908	32.595	61.470	1.00	31.81	E	C
	ATOM	8121	CE2	PHE	E	466	-6.180	32.914	59.202	1.00	31.47	E	C
40	ATOM	8122	CZ	PHE	E	466	-7.144	33.078	60.190	1.00	31.21	E	C
	ATOM	8123	C	PHE	E	466	-1.757	30.433	62.804	1.00	30.64	E	C
	ATOM	8124	O	PHE	E	466	-2.006	29.404	63.424	1.00	30.77	E	O
	ATOM	8125	N	ARG	E	467	-0.538	30.745	62.381	1.00	31.98	E	N
	ATOM	8126	CA	ARG	E	467	0.613	29.883	62.621	1.00	32.78	E	C
45	ATOM	8127	CB	ARG	E	467	1.810	30.377	61.806	1.00	33.30	E	C
	ATOM	8128	CG	ARG	E	467	3.087	29.605	62.056	1.00	34.58	E	C
	ATOM	8129	CD	ARG	E	467	2.930	28.140	61.675	1.00	37.75	E	C
	ATOM	8130	NE	ARG	E	467	4.155	27.394	61.934	1.00	40.19	E	N
	ATOM	8131	CZ	ARG	E	467	4.587	27.083	63.152	1.00	45.51	E	C
50	ATOM	8132	NH1	ARG	E	467	3.888	27.453	64.222	1.00	48.10	E	N
	ATOM	8133	NH2	ARG	E	467	5.731	26.430	63.306	1.00	46.80	E	N
	ATOM	8134	C	ARG	E	467	1.001	29.825	64.095	1.00	34.36	E	C
	ATOM	8135	O	ARG	E	467	1.252	28.748	64.637	1.00	35.13	E	O
	ATOM	8136	N	SER	E	468	1.061	30.989	64.737	1.00	34.11	E	N
55	ATOM	8137	CA	SER	E	468	1.423	31.061	66.147	1.00	33.66	E	C
	ATOM	8138	CB	SER	E	468	1.571	32.525	66.572	1.00	33.46	E	C
	ATOM	8139	OG	SER	E	468	0.327	33.199	66.505	1.00	37.20	E	O
	ATOM	8140	C	SER	E	468	0.382	30.353	67.021	1.00	33.07	E	C
	ATOM	8141	O	SER	E	468	0.697	29.901	68.119	1.00	33.46	E	O
60	ATOM	8142	N	LYS	E	469	-0.852	30.263	66.528	1.00	31.40	E	N
	ATOM	8143	CA	LYS	E	469	-1.937	29.598	67.241	1.00	30.37	E	C
	ATOM	8144	CB	LYS	E	469	-3.287	30.194	66.839	1.00	31.59	E	C
	ATOM	8145	CG	LYS	E	469	-3.737	31.399	67.647	1.00	33.61	E	C
	ATOM	8146	CD	LYS	E	469	-5.105	31.880	67.165	1.00	36.98	E	C
65	ATOM	8147	CE	LYS	E	469	-5.636	33.025	68.012	1.00	37.84	E	C
	ATOM	8148	NZ	LYS	E	469	-4.675	34.156	68.072	1.00	40.48	E	N
	ATOM	8149	C	LYS	E	469	-1.926	28.123	66.856	1.00	31.77	E	C
	ATOM	8150	O	LYS	E	469	-2.741	27.332	67.329	1.00	31.24	E	O

	ATOM	8151	N	ASN	E	470	-1.000	27.764	65.977	1.00	33.30	E	N
	ATOM	8152	CA	ASN	E	470	-0.869	26.396	65.491	1.00	34.03	E	C
	ATOM	8153	CB	ASN	E	470	-0.485	25.472	66.637	1.00	36.86	E	C
	ATOM	8154	CG	ASN	E	470	0.841	25.857	67.255	1.00	40.41	E	C
5	ATOM	8155	OD1	ASN	E	470	1.896	25.678	66.645	1.00	41.21	E	O
	ATOM	8156	ND2	ASN	E	470	0.795	26.405	68.468	1.00	41.83	E	N
	ATOM	8157	C	ASN	E	470	-2.130	25.898	64.801	1.00	34.03	E	C
	ATOM	8158	O	ASN	E	470	-2.547	24.753	64.975	1.00	33.43	E	O
	ATOM	8159	N	PHE	E	471	-2.733	26.779	64.012	1.00	34.07	E	N
10	ATOM	8160	CA	PHE	E	471	-3.923	26.447	63.253	1.00	33.12	E	C
	ATOM	8161	CB	PHE	E	471	-4.749	27.706	62.968	1.00	34.57	E	C
	ATOM	8162	CG	PHE	E	471	-5.695	28.078	64.069	1.00	37.15	E	C
	ATOM	8163	CD1	PHE	E	471	-5.933	27.208	65.129	1.00	39.31	E	C
	ATOM	8164	CD2	PHE	E	471	-6.357	29.298	64.042	1.00	39.39	E	C
15	ATOM	8165	CE1	PHE	E	471	-6.820	27.549	66.150	1.00	41.06	E	C
	ATOM	8166	CE2	PHE	E	471	-7.247	29.652	65.056	1.00	41.95	E	C
	ATOM	8167	CZ	PHE	E	471	-7.480	28.775	66.114	1.00	42.20	E	C
	ATOM	8168	C	PHE	E	471	-3.424	25.868	61.941	1.00	32.19	E	C
	ATOM	8169	O	PHE	E	471	-4.141	25.123	61.279	1.00	33.74	E	O
20	ATOM	8170	N	LEU	E	472	-2.190	26.220	61.578	1.00	30.11	E	N
	ATOM	8171	CA	LEU	E	472	-1.569	25.765	60.335	1.00	29.54	E	C
	ATOM	8172	CB	LEU	E	472	-1.654	26.851	59.244	1.00	29.21	E	C
	ATOM	8173	CG	LEU	E	472	-2.989	27.524	58.920	1.00	29.11	E	C
	ATOM	8174	CD1	LEU	E	472	-2.732	28.865	58.246	1.00	30.27	E	C
25	ATOM	8175	CD2	LEU	E	472	-3.810	26.618	58.023	1.00	27.71	E	C
	ATOM	8176	C	LEU	E	472	-0.098	25.424	60.545	1.00	28.92	E	C
	ATOM	8177	O	LEU	E	472	0.570	26.005	61.400	1.00	31.14	E	O
	ATOM	8178	N	PRO	E	473	0.426	24.472	59.762	1.00	27.72	E	N
	ATOM	8179	CD	PRO	E	473	-0.307	23.688	58.754	1.00	26.32	E	C
30	ATOM	8180	CA	PRO	E	473	1.828	24.057	59.857	1.00	27.33	E	C
	ATOM	8181	CB	PRO	E	473	1.790	22.595	59.436	1.00	26.39	E	C
	ATOM	8182	CG	PRO	E	473	0.577	22.484	58.536	1.00	25.25	E	C
	ATOM	8183	C	PRO	E	473	2.774	24.876	58.968	1.00	28.96	E	C
	ATOM	8184	O	PRO	E	473	3.953	25.043	59.293	1.00	29.34	E	O
35	ATOM	8185	N	HIS	E	474	2.253	25.382	57.849	1.00	28.24	E	N
	ATOM	8186	CA	HIS	E	474	3.048	26.168	56.901	1.00	26.38	E	C
	ATOM	8187	CB	HIS	E	474	3.892	25.230	56.039	1.00	24.85	E	C
	ATOM	8188	CG	HIS	E	474	3.089	24.164	55.363	1.00	25.12	E	C
	ATOM	8189	CD2	HIS	E	474	2.122	24.242	54.418	1.00	26.80	E	C
40	ATOM	8190	ND1	HIS	E	474	3.200	22.829	55.685	1.00	26.26	E	N
	ATOM	8191	CE1	HIS	E	474	2.335	22.130	54.970	1.00	25.12	E	C
	ATOM	8192	NE2	HIS	E	474	1.668	22.964	54.194	1.00	25.70	E	N
	ATOM	8193	C	HIS	E	474	2.138	27.014	56.002	1.00	26.25	E	C
	ATOM	8194	O	HIS	E	474	0.914	26.868	56.035	1.00	24.18	E	O
45	ATOM	8195	N	PHE	E	475	2.743	27.881	55.192	1.00	25.52	E	N
	ATOM	8196	CA	PHE	E	475	1.981	28.756	54.301	1.00	25.29	E	C
	ATOM	8197	CB	PHE	E	475	2.903	29.801	53.668	1.00	23.97	E	C
	ATOM	8198	CG	PHE	E	475	2.168	30.962	53.054	1.00	25.24	E	C
	ATOM	8199	CD1	PHE	E	475	2.204	31.178	51.675	1.00	23.43	E	C
50	ATOM	8200	CD2	PHE	E	475	1.433	31.839	53.852	1.00	24.83	E	C
	ATOM	8201	CE1	PHE	E	475	1.520	32.249	51.100	1.00	23.10	E	C
	ATOM	8202	CE2	PHE	E	475	0.743	32.915	53.285	1.00	25.50	E	C
	ATOM	8203	CZ	PHE	E	475	0.789	33.118	51.902	1.00	24.28	E	C
	ATOM	8204	C	PHE	E	475	1.235	27.998	53.206	1.00	24.77	E	C
55	ATOM	8205	O	PHE	E	475	0.145	28.402	52.792	1.00	24.33	E	O
	ATOM	8206	N	GLY	E	476	1.820	26.897	52.745	1.00	24.60	E	N
	ATOM	8207	CA	GLY	E	476	1.191	26.109	51.699	1.00	23.95	E	C
	ATOM	8208	C	GLY	E	476	-0.192	25.632	52.084	1.00	24.16	E	C
	ATOM	8209	O	GLY	E	476	-1.083	25.521	51.238	1.00	24.08	E	O
60	ATOM	8210	N	LYS	E	477	-0.377	25.354	53.372	1.00	24.27	E	N
	ATOM	8211	CA	LYS	E	477	-1.659	24.882	53.872	1.00	22.53	E	C
	ATOM	8212	CB	LYS	E	477	-1.491	24.299	55.273	1.00	22.61	E	C
	ATOM	8213	CG	LYS	E	477	-2.759	23.700	55.840	1.00	24.37	E	C
	ATOM	8214	CD	LYS	E	477	-3.192	22.462	55.069	1.00	25.70	E	C
65	ATOM	8215	CE	LYS	E	477	-4.568	22.011	55.512	1.00	27.24	E	C
	ATOM	8216	NZ	LYS	E	477	-4.986	20.756	54.832	1.00	31.29	E	N
	ATOM	8217	C	LYS	E	477	-2.701	25.990	53.884	1.00	21.97	E	C
	ATOM	8218	O	LYS	E	477	-3.899	25.718	53.831	1.00	21.73	E	O

	ATOM	8219	N	MET	E	478	-2.250	27.239	53.960	1.00	23.17	E	N
	ATOM	8220	CA	MET	E	478	-3.177	28.368	53.947	1.00	22.59	E	C
	ATOM	8221	CB	MET	E	478	-2.486	29.662	54.401	1.00	23.67	E	C
	ATOM	8222	CG	MET	E	478	-3.472	30.776	54.756	1.00	22.48	E	C
5	ATOM	8223	SD	MET	E	478	-2.689	32.344	55.128	1.00	26.32	E	S
	ATOM	8224	CE	MET	E	478	-4.097	33.426	55.276	1.00	22.05	E	C
	ATOM	8225	C	MET	E	478	-3.682	28.536	52.519	1.00	21.80	E	C
	ATOM	8226	O	MET	E	478	-4.884	28.708	52.286	1.00	22.24	E	O
	ATOM	8227	N	LEU	E	479	-2.749	28.476	51.571	1.00	21.96	E	N
10	ATOM	8228	CA	LEU	E	479	-3.064	28.612	50.152	1.00	22.00	E	C
	ATOM	8229	CB	LEU	E	479	-1.778	28.531	49.322	1.00	18.98	E	C
	ATOM	8230	CG	LEU	E	479	-0.828	29.729	49.363	1.00	16.48	E	C
	ATOM	8231	CD1	LEU	E	479	0.425	29.406	48.568	1.00	17.83	E	C
	ATOM	8232	CD2	LEU	E	479	-1.507	30.952	48.788	1.00	17.27	E	C
15	ATOM	8233	C	LEU	E	479	-4.024	27.497	49.746	1.00	22.11	E	C
	ATOM	8234	O	LEU	E	479	-4.962	27.709	48.973	1.00	21.87	E	O
	ATOM	8235	N	GLU	E	480	-3.791	26.309	50.289	1.00	23.80	E	N
	ATOM	8236	CA	GLU	E	480	-4.636	25.159	49.993	1.00	25.38	E	C
	ATOM	8237	CB	GLU	E	480	-4.049	23.901	50.632	1.00	26.81	E	C
20	ATOM	8238	CG	GLU	E	480	-5.042	22.775	50.790	1.00	30.89	E	C
	ATOM	8239	CD	GLU	E	480	-4.368	21.420	50.854	1.00	34.86	E	C
	ATOM	8240	OE1	GLU	E	480	-3.126	21.377	51.014	1.00	35.28	E	O
	ATOM	8241	OE2	GLU	E	480	-5.080	20.399	50.747	1.00	37.16	E	O
	ATOM	8242	C	GLU	E	480	-6.070	25.366	50.476	1.00	24.19	E	C
25	ATOM	8243	O	GLU	E	480	-7.020	25.102	49.740	1.00	23.68	E	O
	ATOM	8244	N	ASN	E	481	-6.229	25.833	51.710	1.00	23.87	E	N
	ATOM	8245	CA	ASN	E	481	-7.560	26.075	52.262	1.00	22.52	E	C
	ATOM	8246	CB	ASN	E	481	-7.465	26.486	53.729	1.00	25.07	E	C
	ATOM	8247	CG	ASN	E	481	-6.939	25.377	54.611	1.00	26.28	E	C
30	ATOM	8248	OD1	ASN	E	481	-6.317	25.636	55.637	1.00	28.90	E	O
	ATOM	8249	ND2	ASN	E	481	-7.185	24.131	54.216	1.00	26.70	E	N
	ATOM	8250	C	ASN	E	481	-8.279	27.167	51.490	1.00	21.54	E	C
	ATOM	8251	O	ASN	E	481	-9.505	27.156	51.376	1.00	20.36	E	O
	ATOM	8252	N	VAL	E	482	-7.516	28.118	50.962	1.00	20.95	E	N
35	ATOM	8253	CA	VAL	E	482	-8.111	29.204	50.195	1.00	21.35	E	C
	ATOM	8254	CB	VAL	E	482	-7.146	30.410	50.066	1.00	20.92	E	C
	ATOM	8255	CG1	VAL	E	482	-7.753	31.468	49.156	1.00	19.27	E	C
	ATOM	8256	CG2	VAL	E	482	-6.872	31.011	51.444	1.00	20.39	E	C
	ATOM	8257	C	VAL	E	482	-8.530	28.779	48.789	1.00	21.33	E	C
40	ATOM	8258	O	VAL	E	482	-9.659	29.038	48.366	1.00	21.89	E	O
	ATOM	8259	N	PHE	E	483	-7.639	28.102	48.071	1.00	22.21	E	N
	ATOM	8260	CA	PHE	E	483	-7.947	27.722	46.694	1.00	23.09	E	C
	ATOM	8261	CB	PHE	E	483	-6.740	28.046	45.805	1.00	21.29	E	C
	ATOM	8262	CG	PHE	E	483	-6.391	29.512	45.768	1.00	19.18	E	C
45	ATOM	8263	CD1	PHE	E	483	-7.231	30.428	45.144	1.00	19.48	E	C
	ATOM	8264	CD2	PHE	E	483	-5.237	29.979	46.381	1.00	18.26	E	C
	ATOM	8265	CE1	PHE	E	483	-6.928	31.789	45.138	1.00	18.57	E	C
	ATOM	8266	CE2	PHE	E	483	-4.925	31.337	46.378	1.00	18.47	E	C
	ATOM	8267	CZ	PHE	E	483	-5.772	32.241	45.758	1.00	18.47	E	C
50	ATOM	8268	C	PHE	E	483	-8.449	26.310	46.374	1.00	23.81	E	C
	ATOM	8269	O	PHE	E	483	-9.285	26.146	45.490	1.00	25.15	E	O
	ATOM	8270	N	MET	E	484	-7.965	25.295	47.074	1.00	25.14	E	N
	ATOM	8271	CA	MET	E	484	-8.394	23.928	46.786	1.00	26.14	E	C
	ATOM	8272	CB	MET	E	484	-7.769	22.962	47.794	1.00	29.16	E	C
55	ATOM	8273	CG	MET	E	484	-7.874	21.485	47.403	1.00	33.00	E	C
	ATOM	8274	SD	MET	E	484	-7.032	21.041	45.854	1.00	37.37	E	S
	ATOM	8275	CE	MET	E	484	-5.351	20.844	46.390	1.00	31.87	E	C
	ATOM	8276	C	MET	E	484	-9.912	23.699	46.725	1.00	25.58	E	C
	ATOM	8277	O	MET	E	484	-10.414	23.063	45.797	1.00	25.37	E	O
60	ATOM	8278	N	PRO	E	485	-10.667	24.208	47.709	1.00	25.64	E	N
	ATOM	8279	CD	PRO	E	485	-10.258	24.973	48.896	1.00	25.35	E	C
	ATOM	8280	CA	PRO	E	485	-12.118	24.000	47.673	1.00	24.82	E	C
	ATOM	8281	CB	PRO	E	485	-12.616	24.700	48.936	1.00	24.41	E	C
	ATOM	8282	CG	PRO	E	485	-11.417	24.783	49.819	1.00	25.54	E	C
65	ATOM	8283	C	PRO	E	485	-12.785	24.556	46.419	1.00	25.06	E	C
	ATOM	8284	O	PRO	E	485	-13.731	23.966	45.891	1.00	24.68	E	O
	ATOM	8285	N	VAL	E	486	-12.293	25.699	45.954	1.00	24.93	E	N
	ATOM	8286	CA	VAL	E	486	-12.840	26.341	44.769	1.00	24.08	E	C

	ATOM	8287	CB	VAL	E	486	-12.327	27.781	44.647	1.00	25.19	E	C
	ATOM	8288	CG1	VAL	E	486	-13.137	28.533	43.620	1.00	27.06	E	C
	ATOM	8289	CG2	VAL	E	486	-12.432	28.475	45.991	1.00	27.59	E	C
	ATOM	8290	C	VAL	E	486	-12.483	25.553	43.509	1.00	23.87	E	C
5	ATOM	8291	O	VAL	E	486	-13.274	25.478	42.573	1.00	23.28	E	O
	ATOM	8292	N	PHE	E	487	-11.292	24.965	43.485	1.00	24.00	E	N
	ATOM	8293	CA	PHE	E	487	-10.875	24.167	42.343	1.00	26.04	E	C
	ATOM	8294	CB	PHE	E	487	-9.407	23.764	42.468	1.00	26.81	E	C
10	ATOM	8295	CG	PHE	E	487	-8.453	24.746	41.851	1.00	26.17	E	C
	ATOM	8296	CD1	PHE	E	487	-7.884	25.759	42.616	1.00	25.54	E	C
	ATOM	8297	CD2	PHE	E	487	-8.113	24.650	40.505	1.00	27.78	E	C
	ATOM	8298	CE1	PHE	E	487	-6.985	26.665	42.053	1.00	26.33	E	C
	ATOM	8299	CE2	PHE	E	487	-7.216	25.549	39.927	1.00	26.99	E	C
	ATOM	8300	CZ	PHE	E	487	-6.650	26.559	40.702	1.00	27.35	E	C
15	ATOM	8301	C	PHE	E	487	-11.741	22.916	42.312	1.00	27.98	E	C
	ATOM	8302	O	PHE	E	487	-12.139	22.453	41.245	1.00	28.62	E	O
	ATOM	8303	N	GLU	E	488	-12.038	22.379	43.492	1.00	28.95	E	N
	ATOM	8304	CA	GLU	E	488	-12.866	21.184	43.615	1.00	28.89	E	C
	ATOM	8305	CB	GLU	E	488	-12.971	20.760	45.081	1.00	31.44	E	C
20	ATOM	8306	CG	GLU	E	488	-12.314	19.426	45.381	1.00	37.08	E	C
	ATOM	8307	CD	GLU	E	488	-11.536	19.442	46.689	1.00	41.58	E	C
	ATOM	8308	OE1	GLU	E	488	-11.950	20.171	47.624	1.00	43.03	E	O
	ATOM	8309	OE2	GLU	E	488	-10.513	18.725	46.781	1.00	42.29	E	O
	ATOM	8310	C	GLU	E	488	-14.268	21.391	43.058	1.00	26.99	E	C
25	ATOM	8311	O	GLU	E	488	-14.800	20.523	42.376	1.00	25.53	E	O
	ATOM	8312	N	ALA	E	489	-14.870	22.535	43.360	1.00	25.44	E	N
	ATOM	8313	CA	ALA	E	489	-16.214	22.828	42.875	1.00	25.88	E	C
	ATOM	8314	CB	ALA	E	489	-16.781	24.037	43.618	1.00	23.12	E	C
	ATOM	8315	C	ALA	E	489	-16.218	23.085	41.362	1.00	27.11	E	C
30	ATOM	8316	O	ALA	E	489	-17.243	22.919	40.699	1.00	26.44	E	O
	ATOM	8317	N	THR	E	490	-15.072	23.496	40.824	1.00	27.70	E	N
	ATOM	8318	CA	THR	E	490	-14.941	23.773	39.394	1.00	28.92	E	C
	ATOM	8319	CB	THR	E	490	-13.613	24.526	39.088	1.00	28.57	E	C
	ATOM	8320	OG1	THR	E	490	-13.695	25.860	39.597	1.00	30.07	E	O
35	ATOM	8321	CG2	THR	E	490	-13.354	24.591	37.589	1.00	28.31	E	C
	ATOM	8322	C	THR	E	490	-14.955	22.456	38.619	1.00	29.18	E	C
	ATOM	8323	O	THR	E	490	-15.715	22.283	37.664	1.00	27.82	E	O
	ATOM	8324	N	ILE	E	491	-14.107	21.535	39.060	1.00	29.45	E	N
	ATOM	8325	CA	ILE	E	491	-13.970	20.225	38.449	1.00	30.20	E	C
40	ATOM	8326	CB	ILE	E	491	-12.718	19.517	39.023	1.00	29.68	E	C
	ATOM	8327	CG2	ILE	E	491	-13.000	18.071	39.336	1.00	31.98	E	C
	ATOM	8328	CG1	ILE	E	491	-11.576	19.624	38.022	1.00	30.73	E	C
	ATOM	8329	CD1	ILE	E	491	-10.406	20.425	38.538	1.00	31.60	E	C
	ATOM	8330	C	ILE	E	491	-15.220	19.350	38.632	1.00	30.70	E	C
45	ATOM	8331	O	ILE	E	491	-15.587	18.605	37.725	1.00	30.82	E	O
	ATOM	8332	N	ASN	E	492	-15.875	19.449	39.791	1.00	30.58	E	N
	ATOM	8333	CA	ASN	E	492	-17.081	18.660	40.080	1.00	29.84	E	C
	ATOM	8334	CB	ASN	E	492	-16.769	17.587	41.124	1.00	30.38	E	C
	ATOM	8335	CG	ASN	E	492	-15.603	16.703	40.723	1.00	33.35	E	C
50	ATOM	8336	OD1	ASN	E	492	-15.570	16.160	39.616	1.00	33.16	E	O
	ATOM	8337	ND2	ASN	E	492	-14.633	16.555	41.623	1.00	34.29	E	N
	ATOM	8338	C	ASN	E	492	-18.230	19.527	40.590	1.00	29.32	E	C
	ATOM	8339	O	ASN	E	492	-18.636	19.420	41.746	1.00	29.00	E	O
	ATOM	8340	N	PRO	E	493	-18.789	20.381	39.721	1.00	29.83	E	N
55	ATOM	8341	CD	PRO	E	493	-18.436	20.562	38.301	1.00	28.90	E	C
	ATOM	8342	CA	PRO	E	493	-19.892	21.257	40.129	1.00	30.61	E	C
	ATOM	8343	CB	PRO	E	493	-20.302	21.957	38.829	1.00	29.82	E	C
	ATOM	8344	CG	PRO	E	493	-19.112	21.851	37.943	1.00	28.54	E	C
	ATOM	8345	C	PRO	E	493	-21.072	20.542	40.782	1.00	31.99	E	C
60	ATOM	8346	O	PRO	E	493	-21.738	21.100	41.659	1.00	32.66	E	O
	ATOM	8347	N	GLN	E	494	-21.333	19.313	40.357	1.00	31.95	E	N
	ATOM	8348	CA	GLN	E	494	-22.459	18.559	40.893	1.00	34.06	E	C
	ATOM	8349	CB	GLN	E	494	-22.746	17.355	39.999	1.00	36.54	E	C
	ATOM	8350	CG	GLN	E	494	-22.952	17.726	38.546	1.00	40.40	E	C
65	ATOM	8351	CD	GLN	E	494	-24.390	18.089	38.236	1.00	41.46	E	C
	ATOM	8352	OE1	GLN	E	494	-24.918	17.708	37.196	1.00	46.23	E	O
	ATOM	8353	NE2	GLN	E	494	-25.030	18.826	39.137	1.00	41.02	E	N
	ATOM	8354	C	GLN	E	494	-22.260	18.098	42.332	1.00	32.79	E	C

	ATOM	8355	O	GLN	E	494	-23.218	18.018	43.104	1.00	31.49	E	O
	ATOM	8356	N	ALA	E	495	-21.015	17.792	42.681	1.00	30.98	E	N
	ATOM	8357	CA	ALA	E	495	-20.682	17.343	44.022	1.00	28.96	E	C
	ATOM	8358	CB	ALA	E	495	-19.276	16.752	44.034	1.00	26.76	E	C
5	ATOM	8359	C	ALA	E	495	-20.773	18.513	44.997	1.00	29.21	E	C
	ATOM	8360	O	ALA	E	495	-20.999	18.319	46.194	1.00	29.59	E	O
	ATOM	8361	N	HIS	E	496	-20.605	19.727	44.475	1.00	29.71	E	N
	ATOM	8362	CA	HIS	E	496	-20.657	20.943	45.289	1.00	28.73	E	C
	ATOM	8363	CB	HIS	E	496	-19.255	21.524	45.443	1.00	27.93	E	C
10	ATOM	8364	CG	HIS	E	496	-18.218	20.506	45.793	1.00	27.63	E	C
	ATOM	8365	CD2	HIS	E	496	-17.264	19.912	45.039	1.00	28.77	E	C
	ATOM	8366	ND1	HIS	E	496	-18.070	20.001	47.067	1.00	29.21	E	N
	ATOM	8367	CE1	HIS	E	496	-17.065	19.143	47.083	1.00	30.33	E	C
	ATOM	8368	NE2	HIS	E	496	-16.559	19.071	45.865	1.00	30.34	E	N
15	ATOM	8369	C	HIS	E	496	-21.580	21.989	44.665	1.00	28.36	E	C
	ATOM	8370	O	HIS	E	496	-21.135	23.035	44.203	1.00	27.85	E	O
	ATOM	8371	N	PRO	E	497	-22.887	21.716	44.662	1.00	27.63	E	N
	ATOM	8372	CD	PRO	E	497	-23.490	20.491	45.214	1.00	27.69	E	C
	ATOM	8373	CA	PRO	E	497	-23.902	22.610	44.097	1.00	29.03	E	C
20	ATOM	8374	CB	PRO	E	497	-25.202	21.825	44.264	1.00	28.26	E	C
	ATOM	8375	CG	PRO	E	497	-24.922	20.876	45.380	1.00	27.72	E	C
	ATOM	8376	C	PRO	E	497	-24.004	24.009	44.709	1.00	29.38	E	C
	ATOM	8377	O	PRO	E	497	-24.063	24.999	43.978	1.00	29.37	E	O
	ATOM	8378	N	GLU	E	498	-24.044	24.095	46.038	1.00	27.95	E	N
25	ATOM	8379	CA	GLU	E	498	-24.163	25.389	46.707	1.00	25.80	E	C
	ATOM	8380	CB	GLU	E	498	-24.439	25.199	48.201	1.00	27.07	E	C
	ATOM	8381	CG	GLU	E	498	-25.767	25.803	48.641	1.00	29.49	E	C
	ATOM	8382	CD	GLU	E	498	-26.140	25.473	50.084	1.00	33.63	E	C
	ATOM	8383	OE1	GLU	E	498	-25.262	25.040	50.863	1.00	33.32	E	O
30	ATOM	8384	OE2	GLU	E	498	-27.326	25.654	50.439	1.00	34.55	E	O
	ATOM	8385	C	GLU	E	498	-22.936	26.263	46.513	1.00	23.58	E	C
	ATOM	8386	O	GLU	E	498	-23.053	27.465	46.277	1.00	22.77	E	O
	ATOM	8387	N	LEU	E	499	-21.759	25.661	46.614	1.00	23.23	E	N
	ATOM	8388	CA	LEU	E	499	-20.519	26.403	46.420	1.00	23.61	E	C
35	ATOM	8389	CB	LEU	E	499	-19.310	25.526	46.772	1.00	20.27	E	C
	ATOM	8390	CG	LEU	E	499	-17.928	26.164	46.610	1.00	19.81	E	C
	ATOM	8391	CD1	LEU	E	499	-17.894	27.526	47.292	1.00	20.20	E	C
	ATOM	8392	CD2	LEU	E	499	-16.880	25.241	47.195	1.00	17.80	E	C
	ATOM	8393	C	LEU	E	499	-20.432	26.857	44.961	1.00	23.96	E	C
40	ATOM	8394	O	LEU	E	499	-20.046	27.991	44.678	1.00	25.57	E	O
	ATOM	8395	N	SER	E	500	-20.799	25.965	44.043	1.00	24.17	E	N
	ATOM	8396	CA	SER	E	500	-20.784	26.264	42.610	1.00	23.22	E	C
	ATOM	8397	CB	SER	E	500	-21.336	25.074	41.810	1.00	22.27	E	C
	ATOM	8398	OG	SER	E	500	-20.397	24.014	41.751	1.00	20.95	E	O
45	ATOM	8399	C	SER	E	500	-21.633	27.502	42.323	1.00	22.43	E	C
	ATOM	8400	O	SER	E	500	-21.225	28.394	41.578	1.00	22.98	E	O
	ATOM	8401	N	VAL	E	501	-22.821	27.543	42.914	1.00	21.87	E	N
	ATOM	8402	CA	VAL	E	501	-23.732	28.668	42.733	1.00	21.64	E	C
	ATOM	8403	CB	VAL	E	501	-25.081	28.387	43.432	1.00	20.56	E	C
50	ATOM	8404	CG1	VAL	E	501	-25.867	29.679	43.623	1.00	17.84	E	C
	ATOM	8405	CG2	VAL	E	501	-25.872	27.387	42.617	1.00	19.92	E	C
	ATOM	8406	C	VAL	E	501	-23.121	29.951	43.299	1.00	22.61	E	C
	ATOM	8407	O	VAL	E	501	-23.155	31.005	42.663	1.00	22.01	E	O
	ATOM	8408	N	PHE	E	502	-22.561	29.851	44.500	1.00	22.90	E	N
55	ATOM	8409	CA	PHE	E	502	-21.946	30.993	45.165	1.00	22.35	E	C
	ATOM	8410	CB	PHE	E	502	-21.383	30.546	46.532	1.00	21.19	E	C
	ATOM	8411	CG	PHE	E	502	-20.688	31.642	47.315	1.00	17.76	E	C
	ATOM	8412	CD1	PHE	E	502	-21.347	32.824	47.628	1.00	17.85	E	C
	ATOM	8413	CD2	PHE	E	502	-19.383	31.470	47.758	1.00	17.69	E	C
60	ATOM	8414	CE1	PHE	E	502	-20.715	33.823	48.377	1.00	17.90	E	C
	ATOM	8415	CE2	PHE	E	502	-18.742	32.460	48.505	1.00	19.41	E	C
	ATOM	8416	CZ	PHE	E	502	-19.413	33.640	48.815	1.00	17.22	E	C
	ATOM	8417	C	PHE	E	502	-20.837	31.573	44.283	1.00	20.85	E	C
	ATOM	8418	O	PHE	E	502	-20.774	32.785	44.059	1.00	19.93	E	O
65	ATOM	8419	N	LEU	E	503	-19.974	30.698	43.776	1.00	20.20	E	N
	ATOM	8420	CA	LEU	E	503	-18.857	31.115	42.937	1.00	19.31	E	C
	ATOM	8421	CB	LEU	E	503	-18.036	29.897	42.531	1.00	17.77	E	C
	ATOM	8422	CG	LEU	E	503	-17.160	29.325	43.643	1.00	18.61	E	C

5	ATOM	8423	CD1	LEU	E	503	-16.459	28.074	43.142	1.00	17.00	E	C
	ATOM	8424	CD2	LEU	E	503	-16.143	30.370	44.091	1.00	17.59	E	C
	ATOM	8425	C	LEU	E	503	-19.279	31.896	41.694	1.00	19.85	E	C
	ATOM	8426	O	LEU	E	503	-18.474	32.627	41.120	1.00	22.16	E	O
	ATOM	8427	N	LYS	E	504	-20.529	31.740	41.276	1.00	18.96	E	N
	ATOM	8428	CA	LYS	E	504	-21.031	32.462	40.113	1.00	21.69	E	C
	ATOM	8429	CB	LYS	E	504	-22.290	31.792	39.558	1.00	21.09	E	C
10	ATOM	8430	CG	LYS	E	504	-22.018	30.535	38.765	1.00	22.18	E	C
	ATOM	8431	CD	LYS	E	504	-23.308	29.826	38.405	1.00	25.33	E	C
	ATOM	8432	CE	LYS	E	504	-24.166	30.660	37.468	1.00	25.58	E	C
	ATOM	8433	NZ	LYS	E	504	-25.555	30.122	37.375	1.00	28.82	E	N
	ATOM	8434	C	LYS	E	504	-21.367	33.896	40.509	1.00	22.72	E	C
15	ATOM	8435	O	LYS	E	504	-21.589	34.746	39.645	1.00	24.10	E	O
	ATOM	8436	N	HIS	E	505	-21.410	34.153	41.818	1.00	20.94	E	N
	ATOM	8437	CA	HIS	E	505	-21.728	35.478	42.343	1.00	18.16	E	C
	ATOM	8438	CB	HIS	E	505	-22.710	35.359	43.512	1.00	17.82	E	C
	ATOM	8439	CG	HIS	E	505	-24.094	34.946	43.106	1.00	19.58	E	C
20	ATOM	8440	CD2	HIS	E	505	-24.600	33.738	42.758	1.00	20.64	E	C
	ATOM	8441	ND1	HIS	E	505	-25.154	35.828	43.070	1.00	20.64	E	N
	ATOM	8442	CE1	HIS	E	505	-26.252	35.183	42.718	1.00	21.17	E	C
	ATOM	8443	NE2	HIS	E	505	-25.944	33.913	42.523	1.00	21.59	E	N
	ATOM	8444	C	HIS	E	505	-20.485	36.237	42.804	1.00	16.57	E	C
25	ATOM	8445	O	HIS	E	505	-20.580	37.398	43.195	1.00	16.25	E	O
	ATOM	8446	N	ILE	E	506	-19.328	35.580	42.760	1.00	15.59	E	N
	ATOM	8447	CA	ILE	E	506	-18.064	36.193	43.165	1.00	15.08	E	C
	ATOM	8448	CB	ILE	E	506	-17.130	35.177	43.875	1.00	13.07	E	C
	ATOM	8449	CG2	ILE	E	506	-15.774	35.809	44.126	1.00	11.18	E	C
30	ATOM	8450	CG1	ILE	E	506	-17.749	34.713	45.202	1.00	14.62	E	C
	ATOM	8451	CD1	ILE	E	506	-18.362	35.831	46.050	1.00	14.23	E	C
	ATOM	8452	C	ILE	E	506	-17.337	36.737	41.937	1.00	18.44	E	C
	ATOM	8453	O	ILE	E	506	-17.037	35.988	40.997	1.00	18.74	E	O
	ATOM	8454	N	THR	E	507	-17.039	38.035	41.959	1.00	17.95	E	N
35	ATOM	8455	CA	THR	E	507	-16.373	38.695	40.845	1.00	17.25	E	C
	ATOM	8456	CB	THR	E	507	-16.914	40.130	40.660	1.00	16.84	E	C
	ATOM	8457	OG1	THR	E	507	-16.415	40.977	41.705	1.00	18.13	E	O
	ATOM	8458	CG2	THR	E	507	-18.437	40.130	40.689	1.00	14.14	E	C
	ATOM	8459	C	THR	E	507	-14.849	38.753	40.938	1.00	17.99	E	C
40	ATOM	8460	O	THR	E	507	-14.168	38.796	39.911	1.00	17.95	E	O
	ATOM	8461	N	GLY	E	508	-14.307	38.751	42.156	1.00	17.94	E	N
	ATOM	8462	CA	GLY	E	508	-12.861	38.810	42.303	1.00	16.46	E	C
	ATOM	8463	C	GLY	E	508	-12.335	38.590	43.708	1.00	17.39	E	C
	ATOM	8464	O	GLY	E	508	-13.108	38.364	44.641	1.00	17.40	E	O
45	ATOM	8465	N	PHE	E	509	-11.012	38.668	43.853	1.00	17.84	E	N
	ATOM	8466	CA	PHE	E	509	-10.337	38.474	45.139	1.00	18.54	E	C
	ATOM	8467	CB	PHE	E	509	-9.339	37.316	45.049	1.00	19.21	E	C
	ATOM	8468	CG	PHE	E	509	-9.981	35.968	44.953	1.00	20.98	E	C
	ATOM	8469	CD1	PHE	E	509	-10.151	35.185	46.087	1.00	21.32	E	C
50	ATOM	8470	CD2	PHE	E	509	-10.413	35.475	43.724	1.00	21.48	E	C
	ATOM	8471	CE1	PHE	E	509	-10.742	33.929	46.004	1.00	22.13	E	C
	ATOM	8472	CE2	PHE	E	509	-11.006	34.220	43.629	1.00	22.38	E	C
	ATOM	8473	CZ	PHE	E	509	-11.171	33.443	44.774	1.00	22.18	E	C
	ATOM	8474	C	PHE	E	509	-9.579	39.715	45.612	1.00	18.57	E	C
55	ATOM	8475	O	PHE	E	509	-8.932	40.400	44.812	1.00	17.83	E	O
	ATOM	8476	N	ASP	E	510	-9.655	39.981	46.917	1.00	17.12	E	N
	ATOM	8477	CA	ASP	E	510	-8.970	41.113	47.530	1.00	15.78	E	C
	ATOM	8478	CB	ASP	E	510	-9.980	42.028	48.230	1.00	13.63	E	C
	ATOM	8479	CG	ASP	E	510	-9.486	43.461	48.371	1.00	12.35	E	C
60	ATOM	8480	OD1	ASP	E	510	-8.266	43.680	48.482	1.00	13.00	E	O
	ATOM	8481	OD2	ASP	E	510	-10.330	44.379	48.373	1.00	15.04	E	O
	ATOM	8482	C	ASP	E	510	-7.969	40.562	48.548	1.00	17.25	E	C
	ATOM	8483	O	ASP	E	510	-8.073	39.408	48.970	1.00	15.52	E	O
	ATOM	8484	N	SER	E	511	-6.991	41.382	48.919	1.00	18.67	E	N
65	ATOM	8485	CA	SER	E	511	-5.977	41.002	49.901	1.00	19.47	E	C
	ATOM	8486	CB	SER	E	511	-4.638	40.764	49.214	1.00	20.09	E	C
	ATOM	8487	OG	SER	E	511	-3.619	40.538	50.168	1.00	18.85	E	O
	ATOM	8488	C	SER	E	511	-5.856	42.163	50.887	1.00	19.88	E	C
	ATOM	8489	O	SER	E	511	-5.548	43.285	50.486	1.00	19.34	E	O
	ATOM	8490	N	VAL	E	512	-6.090	41.895	52.171	1.00	20.43	E	N

	ATOM	8491	CA	VAL	E	512	-6.044	42.952	53.182	1.00	19.45	E	C
	ATOM	8492	CB	VAL	E	512	-7.461	43.255	53.708	1.00	18.41	E	C
	ATOM	8493	CG1	VAL	E	512	-8.359	43.701	52.566	1.00	20.59	E	C
	ATOM	8494	CG2	VAL	E	512	-8.035	42.025	54.369	1.00	18.12	E	C
5	ATOM	8495	C	VAL	E	512	-5.135	42.711	54.394	1.00	20.74	E	C
	ATOM	8496	O	VAL	E	512	-4.873	41.574	54.787	1.00	17.77	E	O
	ATOM	8497	N	ASP	E	513	-4.673	43.813	54.981	1.00	21.81	E	N
	ATOM	8498	CA	ASP	E	513	-3.804	43.808	56.156	1.00	23.12	E	C
	ATOM	8499	CB	ASP	E	513	-2.620	42.851	55.960	1.00	24.25	E	C
10	ATOM	8500	CG	ASP	E	513	-1.889	42.528	57.275	1.00	27.36	E	C
	ATOM	8501	OD1	ASP	E	513	-2.380	42.913	58.360	1.00	25.37	E	O
	ATOM	8502	OD2	ASP	E	513	-0.817	41.885	57.225	1.00	27.92	E	O
	ATOM	8503	C	ASP	E	513	-3.279	45.224	56.364	1.00	23.97	E	C
	ATOM	8504	O	ASP	E	513	-3.558	46.114	55.568	1.00	24.95	E	O
15	ATOM	8505	N	ASP	E	514	-2.533	45.436	57.441	1.00	24.81	E	N
	ATOM	8506	CA	ASP	E	514	-1.950	46.743	57.719	1.00	25.33	E	C
	ATOM	8507	CB	ASP	E	514	-1.476	46.820	59.173	1.00	27.06	E	C
	ATOM	8508	CG	ASP	E	514	-0.901	48.178	59.528	1.00	28.76	E	C
	ATOM	8509	OD1	ASP	E	514	-0.703	49.008	58.613	1.00	28.57	E	O
20	ATOM	8510	OD2	ASP	E	514	-0.648	48.418	60.725	1.00	30.06	E	O
	ATOM	8511	C	ASP	E	514	-0.757	46.856	56.783	1.00	24.72	E	C
	ATOM	8512	O	ASP	E	514	0.296	46.275	57.038	1.00	25.62	E	O
	ATOM	8513	N	GLU	E	515	-0.926	47.601	55.696	1.00	24.65	E	N
	ATOM	8514	CA	GLU	E	515	0.133	47.749	54.706	1.00	23.87	E	C
25	ATOM	8515	CB	GLU	E	515	-0.393	48.480	53.471	1.00	21.61	E	C
	ATOM	8516	CG	GLU	E	515	-0.091	47.746	52.176	1.00	19.13	E	C
	ATOM	8517	CD	GLU	E	515	-0.391	48.582	50.951	1.00	17.15	E	C
	ATOM	8518	OE1	GLU	E	515	-1.436	49.264	50.937	1.00	15.87	E	O
	ATOM	8519	OE2	GLU	E	515	0.420	48.555	50.004	1.00	15.70	E	O
30	ATOM	8520	C	GLU	E	515	1.383	48.438	55.201	1.00	24.30	E	C
	ATOM	8521	O	GLU	E	515	2.443	48.302	54.594	1.00	24.57	E	O
	ATOM	8522	N	SER	E	516	1.266	49.177	56.298	1.00	26.32	E	N
	ATOM	8523	CA	SER	E	516	2.411	49.886	56.856	1.00	29.08	E	C
	ATOM	8524	CB	SER	E	516	1.947	51.019	57.771	1.00	27.76	E	C
35	ATOM	8525	OG	SER	E	516	1.483	50.509	59.006	1.00	28.76	E	O
	ATOM	8526	C	SER	E	516	3.322	48.950	57.634	1.00	30.89	E	C
	ATOM	8527	O	SER	E	516	4.430	49.322	57.997	1.00	31.28	E	O
	ATOM	8528	N	LYS	E	517	2.853	47.736	57.889	1.00	34.55	E	N
	ATOM	8529	CA	LYS	E	517	3.642	46.758	58.622	1.00	38.82	E	C
40	ATOM	8530	CB	LYS	E	517	2.894	45.430	58.706	1.00	37.97	E	C
	ATOM	8531	CG	LYS	E	517	2.632	44.954	60.120	1.00	37.89	E	C
	ATOM	8532	CD	LYS	E	517	1.245	44.351	60.267	1.00	38.20	E	C
	ATOM	8533	CE	LYS	E	517	1.033	43.180	59.315	1.00	37.89	E	C
	ATOM	8534	NZ	LYS	E	517	1.166	41.858	59.986	1.00	39.94	E	N
45	ATOM	8535	C	LYS	E	517	4.985	46.542	57.947	1.00	43.91	E	C
	ATOM	8536	O	LYS	E	517	5.138	46.771	56.748	1.00	44.80	E	O
	ATOM	8537	N	HIS	E	518	5.956	46.100	58.737	1.00	49.52	E	N
	ATOM	8538	CA	HIS	E	518	7.318	45.838	58.276	1.00	55.01	E	C
	ATOM	8539	CB	HIS	E	518	8.271	45.977	59.453	1.00	60.72	E	C
50	ATOM	8540	CG	HIS	E	518	7.875	45.133	60.625	1.00	67.20	E	C
	ATOM	8541	CD2	HIS	E	518	6.930	45.321	61.579	1.00	69.31	E	C
	ATOM	8542	ND1	HIS	E	518	8.418	43.887	60.863	1.00	69.51	E	N
	ATOM	8543	CE1	HIS	E	518	7.824	43.344	61.912	1.00	71.60	E	C
	ATOM	8544	NE2	HIS	E	518	6.918	44.194	62.365	1.00	71.71	E	N
55	ATOM	8545	C	HIS	E	518	7.398	44.405	57.765	1.00	55.83	E	C
	ATOM	8546	O	HIS	E	518	6.549	43.577	58.096	1.00	57.01	E	O
	ATOM	8547	N	SER	E	519	8.426	44.104	56.978	1.00	55.73	E	N
	ATOM	8548	CA	SER	E	519	8.601	42.751	56.457	1.00	55.29	E	C
	ATOM	8549	CB	SER	E	519	8.208	42.687	54.978	1.00	55.33	E	C
60	ATOM	8550	OG	SER	E	519	8.358	41.368	54.482	1.00	53.69	E	O
	ATOM	8551	C	SER	E	519	10.044	42.288	56.621	1.00	55.15	E	C
	ATOM	8552	O	SER	E	519	10.312	41.281	57.280	1.00	53.94	E	O
	ATOM	8553	N	GLY	E	520	10.966	43.032	56.015	1.00	54.90	E	N
	ATOM	8554	CA	GLY	E	520	12.373	42.690	56.098	1.00	55.14	E	C
65	ATOM	8555	C	GLY	E	520	12.821	41.719	55.020	1.00	55.03	E	C
	ATOM	8556	O	GLY	E	520	13.952	41.797	54.539	1.00	55.87	E	O
	ATOM	8557	N	HIS	E	521	11.933	40.806	54.638	1.00	55.00	E	N
	ATOM	8558	CA	HIS	E	521	12.237	39.804	53.618	1.00	54.65	E	C

5	ATOM	8559	CB	HIS	E	521	12.087	38.398	54.208	1.00	56.35	E	C
	ATOM	8560	CG	HIS	E	521	10.851	38.215	55.039	1.00	59.11	E	C
	ATOM	8561	CD2	HIS	E	521	9.537	38.280	54.715	1.00	59.41	E	C
	ATOM	8562	ND1	HIS	E	521	10.897	37.924	56.388	1.00	60.57	E	N
	ATOM	8563	CE1	HIS	E	521	9.666	37.819	56.857	1.00	60.83	E	C
	ATOM	8564	NE2	HIS	E	521	8.822	38.031	55.862	1.00	60.64	E	N
	ATOM	8565	C	HIS	E	521	11.313	39.941	52.413	1.00	53.15	E	C
10	ATOM	8566	O	HIS	E	521	10.095	39.860	52.552	1.00	54.64	E	O
	ATOM	8567	N	MET	E	522	11.877	40.148	51.228	1.00	50.77	E	N
	ATOM	8568	CA	MET	E	522	11.036	40.269	50.043	1.00	49.47	E	C
	ATOM	8569	CB	MET	E	522	11.357	41.539	49.259	1.00	49.89	E	C
	ATOM	8570	CG	MET	E	522	10.112	42.157	48.636	1.00	52.15	E	C
15	ATOM	8571	SD	MET	E	522	10.359	42.748	46.963	1.00	53.18	E	S
	ATOM	8572	CE	MET	E	522	11.529	44.092	47.270	1.00	52.39	E	C
	ATOM	8573	C	MET	E	522	11.147	39.069	49.119	1.00	46.43	E	C
	ATOM	8574	O	MET	E	522	12.151	38.357	49.122	1.00	46.65	E	O
	ATOM	8575	N	PHE	E	523	10.100	38.854	48.330	1.00	42.24	E	N
20	ATOM	8576	CA	PHE	E	523	10.047	37.741	47.391	1.00	38.84	E	C
	ATOM	8577	CB	PHE	E	523	8.835	37.895	46.475	1.00	35.76	E	C
	ATOM	8578	CG	PHE	E	523	8.457	36.635	45.763	1.00	33.75	E	C
	ATOM	8579	CD1	PHE	E	523	8.332	35.438	46.460	1.00	32.09	E	C
	ATOM	8580	CD2	PHE	E	523	8.214	36.643	44.394	1.00	33.01	E	C
25	ATOM	8581	CE1	PHE	E	523	7.970	34.271	45.803	1.00	31.84	E	C
	ATOM	8582	CE2	PHE	E	523	7.851	35.479	43.729	1.00	30.41	E	C
	ATOM	8583	CZ	PHE	E	523	7.728	34.292	44.432	1.00	30.03	E	C
	ATOM	8584	C	PHE	E	523	11.313	37.634	46.548	1.00	37.84	E	C
	ATOM	8585	O	PHE	E	523	11.776	38.621	45.981	1.00	37.97	E	O
30	ATOM	8586	N	SER	E	524	11.869	36.430	46.467	1.00	37.08	E	N
	ATOM	8587	CA	SER	E	524	13.077	36.205	45.691	1.00	37.63	E	C
	ATOM	8588	CB	SER	E	524	14.299	36.745	46.438	1.00	37.27	E	C
	ATOM	8589	OG	SER	E	524	15.075	35.690	46.978	1.00	37.19	E	O
	ATOM	8590	C	SER	E	524	13.286	34.731	45.383	1.00	38.94	E	C
35	ATOM	8591	O	SER	E	524	12.509	33.878	45.804	1.00	39.01	E	O
	ATOM	8592	N	SER	E	525	14.350	34.446	44.643	1.00	39.88	E	N
	ATOM	8593	CA	SER	E	525	14.693	33.084	44.259	1.00	41.76	E	C
	ATOM	8594	CB	SER	E	525	15.921	33.106	43.353	1.00	41.67	E	C
	ATOM	8595	OG	SER	E	525	15.670	32.400	42.156	1.00	45.24	E	O
40	ATOM	8596	C	SER	E	525	14.981	32.194	45.464	1.00	42.17	E	C
	ATOM	8597	O	SER	E	525	14.694	30.995	45.447	1.00	41.67	E	O
	ATOM	8598	N	LYS	E	526	15.555	32.788	46.503	1.00	42.43	E	N
	ATOM	8599	CA	LYS	E	526	15.907	32.054	47.712	1.00	41.95	E	C
	ATOM	8600	CB	LYS	E	526	16.975	32.824	48.496	1.00	45.04	E	C
45	ATOM	8601	CG	LYS	E	526	18.019	33.509	47.632	1.00	47.56	E	C
	ATOM	8602	CD	LYS	E	526	19.410	32.957	47.912	1.00	51.62	E	C
	ATOM	8603	CE	LYS	E	526	20.483	34.024	47.706	1.00	53.86	E	C
	ATOM	8604	NZ	LYS	E	526	21.555	33.967	48.746	1.00	55.30	E	N
	ATOM	8605	C	LYS	E	526	14.709	31.785	48.620	1.00	40.49	E	C
50	ATOM	8606	O	LYS	E	526	14.758	30.899	49.473	1.00	39.67	E	O
	ATOM	8607	N	SER	E	527	13.637	32.547	48.438	1.00	37.43	E	N
	ATOM	8608	CA	SER	E	527	12.445	32.379	49.258	1.00	35.52	E	C
	ATOM	8609	CB	SER	E	527	11.339	33.331	48.784	1.00	34.53	E	C
	ATOM	8610	OG	SER	E	527	11.745	34.682	48.904	1.00	32.48	E	O
55	ATOM	8611	C	SER	E	527	11.915	30.941	49.262	1.00	34.94	E	C
	ATOM	8612	O	SER	E	527	11.729	30.332	48.209	1.00	35.60	E	O
	ATOM	8613	N	PRO	E	528	11.685	30.373	50.460	1.00	34.34	E	N
	ATOM	8614	CD	PRO	E	528	11.924	30.963	51.790	1.00	33.29	E	C
	ATOM	8615	CA	PRO	E	528	11.169	29.002	50.551	1.00	32.88	E	C
60	ATOM	8616	CB	PRO	E	528	11.169	28.709	52.051	1.00	32.03	E	C
	ATOM	8617	CG	PRO	E	528	11.176	30.043	52.711	1.00	32.27	E	C
	ATOM	8618	C	PRO	E	528	9.770	28.882	49.955	1.00	32.91	E	C
	ATOM	8619	O	PRO	E	528	8.997	29.840	49.972	1.00	33.99	E	O
	ATOM	8620	N	LYS	E	529	9.449	27.709	49.418	1.00	32.55	E	N
65	ATOM	8621	CA	LYS	E	529	8.130	27.479	48.843	1.00	32.59	E	C
	ATOM	8622	CB	LYS	E	529	8.079	26.117	48.152	1.00	32.96	E	C
	ATOM	8623	CG	LYS	E	529	9.230	25.872	47.191	1.00	32.34	E	C
	ATOM	8624	CD	LYS	E	529	9.057	26.673	45.915	1.00	32.59	E	C
	ATOM	8625	CE	LYS	E	529	10.283	27.526	45.629	1.00	34.22	E	C
	ATOM	8626	NZ	LYS	E	529	10.932	27.168	44.335	1.00	31.77	E	N

	ATOM	8627	C	LYS	E	529	7.148	27.507	50.005	1.00	32.33	E	C
	ATOM	8628	O	LYS	E	529	7.556	27.361	51.154	1.00	32.47	E	O
	ATOM	8629	N	PRO	E	530	5.846	27.702	49.724	1.00	31.90	E	N
5	ATOM	8630	CD	PRO	E	530	5.267	27.911	48.388	1.00	30.74	E	C
	ATOM	8631	CA	PRO	E	530	4.814	27.751	50.768	1.00	31.72	E	C
	ATOM	8632	CB	PRO	E	530	3.512	27.816	49.974	1.00	30.02	E	C
	ATOM	8633	CG	PRO	E	530	3.897	28.448	48.700	1.00	29.33	E	C
	ATOM	8634	C	PRO	E	530	4.826	26.582	51.759	1.00	33.02	E	C
10	ATOM	8635	O	PRO	E	530	4.683	26.776	52.970	1.00	32.92	E	O
	ATOM	8636	N	GLN	E	531	4.988	25.369	51.242	1.00	33.06	E	N
	ATOM	8637	CA	GLN	E	531	5.013	24.184	52.090	1.00	33.25	E	C
	ATOM	8638	CB	GLN	E	531	4.937	22.918	51.231	1.00	34.53	E	C
	ATOM	8639	CG	GLN	E	531	6.195	22.646	50.406	1.00	36.83	E	C
15	ATOM	8640	CD	GLN	E	531	6.112	23.189	48.982	1.00	38.17	E	C
	ATOM	8641	OE1	GLN	E	531	5.300	24.069	48.680	1.00	37.95	E	O
	ATOM	8642	NE2	GLN	E	531	6.961	22.664	48.101	1.00	38.97	E	N
	ATOM	8643	C	GLN	E	531	6.279	24.160	52.938	1.00	32.79	E	C
	ATOM	8644	O	GLN	E	531	6.318	23.516	53.980	1.00	32.80	E	O
20	ATOM	8645	N	GLU	E	532	7.312	24.861	52.487	1.00	31.66	E	N
	ATOM	8646	CA	GLU	E	532	8.566	24.916	53.221	1.00	32.50	E	C
	ATOM	8647	CB	GLU	E	532	9.745	24.986	52.251	1.00	36.25	E	C
	ATOM	8648	CG	GLU	E	532	9.974	23.710	51.455	1.00	41.58	E	C
	ATOM	8649	CD	GLU	E	532	10.678	23.968	50.127	1.00	45.51	E	C
25	ATOM	8650	OE1	GLU	E	532	11.175	25.100	49.922	1.00	47.34	E	O
	ATOM	8651	OE2	GLU	E	532	10.733	23.038	49.287	1.00	48.00	E	O
	ATOM	8652	C	GLU	E	532	8.604	26.121	54.157	1.00	32.65	E	C
	ATOM	8653	O	GLU	E	532	9.552	26.290	54.921	1.00	32.91	E	O
	ATOM	8654	N	TRP	E	533	7.578	26.966	54.085	1.00	31.22	E	N
30	ATOM	8655	CA	TRP	E	533	7.497	28.148	54.939	1.00	29.02	E	C
	ATOM	8656	CB	TRP	E	533	6.710	29.265	54.242	1.00	27.34	E	C
	ATOM	8657	CG	TRP	E	533	6.802	30.591	54.946	1.00	26.65	E	C
	ATOM	8658	CD2	TRP	E	533	7.569	31.735	54.534	1.00	25.73	E	C
	ATOM	8659	CE2	TRP	E	533	7.388	32.735	55.517	1.00	24.64	E	C
35	ATOM	8660	CE3	TRP	E	533	8.392	32.010	53.429	1.00	24.67	E	C
	ATOM	8661	CD1	TRP	E	533	6.204	30.938	56.125	1.00	25.27	E	C
	ATOM	8662	NE1	TRP	E	533	6.552	32.221	56.475	1.00	24.38	E	N
	ATOM	8663	CZ2	TRP	E	533	7.999	33.991	55.432	1.00	24.47	E	C
	ATOM	8664	CZ3	TRP	E	533	9.002	33.262	53.342	1.00	23.97	E	C
40	ATOM	8665	CH2	TRP	E	533	8.800	34.236	54.341	1.00	26.07	E	C
	ATOM	8666	C	TRP	E	533	6.781	27.721	56.213	1.00	29.24	E	C
	ATOM	8667	O	TRP	E	533	5.560	27.841	56.329	1.00	28.97	E	O
	ATOM	8668	N	THR	E	534	7.551	27.210	57.165	1.00	29.79	E	N
	ATOM	8669	CA	THR	E	534	7.002	26.740	58.433	1.00	30.77	E	C
45	ATOM	8670	CB	THR	E	534	7.574	25.359	58.783	1.00	30.41	E	C
	ATOM	8671	OG1	THR	E	534	9.002	25.443	58.833	1.00	33.89	E	O
	ATOM	8672	CG2	THR	E	534	7.184	24.336	57.729	1.00	29.60	E	C
	ATOM	8673	C	THR	E	534	7.271	27.688	59.609	1.00	30.35	E	C
	ATOM	8674	O	THR	E	534	6.699	27.520	60.685	1.00	31.33	E	O
50	ATOM	8675	N	LEU	E	535	8.138	28.677	59.407	1.00	31.30	E	N
	ATOM	8676	CA	LEU	E	535	8.455	29.632	60.461	1.00	32.41	E	C
	ATOM	8677	CB	LEU	E	535	9.624	30.531	60.044	1.00	33.18	E	C
	ATOM	8678	CG	LEU	E	535	9.507	31.287	58.719	1.00	36.91	E	C
	ATOM	8679	CD1	LEU	E	535	10.261	32.596	58.825	1.00	35.37	E	C
55	ATOM	8680	CD2	LEU	E	535	10.074	30.444	57.573	1.00	39.18	E	C
	ATOM	8681	C	LEU	E	535	7.228	30.472	60.786	1.00	34.20	E	C
	ATOM	8682	O	LEU	E	535	6.222	30.416	60.083	1.00	35.68	E	O
	ATOM	8683	N	GLU	E	536	7.309	31.252	61.855	1.00	34.84	E	N
	ATOM	8684	CA	GLU	E	536	6.179	32.065	62.277	1.00	36.04	E	C
60	ATOM	8685	CB	GLU	E	536	6.256	32.314	63.781	1.00	39.97	E	C
	ATOM	8686	CG	GLU	E	536	4.944	32.091	64.500	1.00	45.13	E	C
	ATOM	8687	CD	GLU	E	536	5.089	32.184	66.001	1.00	47.25	E	C
	ATOM	8688	OE1	GLU	E	536	4.674	33.218	66.574	1.00	48.61	E	O
	ATOM	8689	OE2	GLU	E	536	5.620	31.223	66.601	1.00	48.88	E	O
65	ATOM	8690	C	GLU	E	536	6.048	33.395	61.558	1.00	35.11	E	C
	ATOM	8691	O	GLU	E	536	4.979	34.000	61.575	1.00	35.25	E	O
	ATOM	8692	N	LYS	E	537	7.134	33.849	60.939	1.00	33.98	E	N
	ATOM	8693	CA	LYS	E	537	7.140	35.114	60.212	1.00	33.63	E	C
	ATOM	8694	CB	LYS	E	537	8.505	35.356	59.567	1.00	35.25	E	C

	ATOM	8695	CG	LYS	E	537	9.418	36.267	60.357	1.00	41.14	E	C
	ATOM	8696	CD	LYS	E	537	9.009	37.728	60.222	1.00	46.45	E	C
	ATOM	8697	CE	LYS	E	537	9.958	38.635	61.005	1.00	50.63	E	C
5	ATOM	8698	NZ	LYS	E	537	9.293	39.875	61.517	1.00	54.78	E	N
	ATOM	8699	C	LYS	E	537	6.078	35.121	59.121	1.00	32.07	E	C
	ATOM	8700	O	LYS	E	537	5.842	34.107	58.463	1.00	32.31	E	O
	ATOM	8701	N	ASN	E	538	5.436	36.267	58.936	1.00	29.10	E	N
	ATOM	8702	CA	ASN	E	538	4.418	36.407	57.904	1.00	26.54	E	C
10	ATOM	8703	CB	ASN	E	538	3.485	37.575	58.244	1.00	26.37	E	C
	ATOM	8704	CG	ASN	E	538	2.149	37.491	57.529	1.00	25.89	E	C
	ATOM	8705	OD1	ASN	E	538	1.637	36.399	57.268	1.00	24.37	E	O
	ATOM	8706	ND2	ASN	E	538	1.572	38.651	57.213	1.00	24.35	E	N
	ATOM	8707	C	ASN	E	538	5.154	36.706	56.607	1.00	24.18	E	C
15	ATOM	8708	O	ASN	E	538	6.078	37.516	56.588	1.00	22.70	E	O
	ATOM	8709	N	PRO	E	539	4.784	36.030	55.512	1.00	24.01	E	N
	ATOM	8710	CD	PRO	E	539	3.770	34.974	55.369	1.00	23.39	E	C
	ATOM	8711	CA	PRO	E	539	5.473	36.310	54.243	1.00	24.74	E	C
	ATOM	8712	CB	PRO	E	539	4.848	35.312	53.260	1.00	22.70	E	C
20	ATOM	8713	CG	PRO	E	539	4.213	34.258	54.121	1.00	23.11	E	C
	ATOM	8714	C	PRO	E	539	5.236	37.770	53.819	1.00	24.26	E	C
	ATOM	8715	O	PRO	E	539	4.285	38.405	54.282	1.00	25.76	E	O
	ATOM	8716	N	SER	E	540	6.098	38.297	52.951	1.00	23.60	E	N
	ATOM	8717	CA	SER	E	540	5.975	39.674	52.474	1.00	21.59	E	C
25	ATOM	8718	CB	SER	E	540	7.240	40.082	51.714	1.00	21.20	E	C
	ATOM	8719	OG	SER	E	540	7.301	39.470	50.440	1.00	20.84	E	O
	ATOM	8720	C	SER	E	540	4.749	39.878	51.580	1.00	21.76	E	C
	ATOM	8721	O	SER	E	540	4.130	38.916	51.125	1.00	22.12	E	O
	ATOM	8722	N	TYR	E	541	4.402	41.141	51.346	1.00	21.19	E	N
30	ATOM	8723	CA	TYR	E	541	3.261	41.503	50.513	1.00	19.74	E	C
	ATOM	8724	CB	TYR	E	541	3.194	43.031	50.373	1.00	17.86	E	C
	ATOM	8725	CG	TYR	E	541	2.044	43.555	49.536	1.00	19.04	E	C
	ATOM	8726	CD1	TYR	E	541	2.137	43.615	48.144	1.00	17.80	E	C
	ATOM	8727	CE1	TYR	E	541	1.085	44.110	47.375	1.00	17.37	E	C
35	ATOM	8728	CD2	TYR	E	541	0.866	44.003	50.136	1.00	17.37	E	C
	ATOM	8729	CE2	TYR	E	541	-0.190	44.500	49.374	1.00	17.14	E	C
	ATOM	8730	CZ	TYR	E	541	-0.074	44.551	47.993	1.00	17.61	E	C
	ATOM	8731	OH	TYR	E	541	-1.113	45.044	47.235	1.00	15.05	E	O
	ATOM	8732	C	TYR	E	541	3.375	40.853	49.132	1.00	21.16	E	C
40	ATOM	8733	O	TYR	E	541	2.410	40.281	48.620	1.00	23.11	E	O
	ATOM	8734	CA	THR	E	542	4.561	40.937	48.538	1.00	20.03	E	N
	ATOM	8735	NA	THR	E	542	4.800	40.374	47.214	1.00	20.77	E	C
	ATOM	8736	CB	THR	E	542	6.183	40.812	46.694	1.00	19.88	E	C
	ATOM	8737	OG1	THR	E	542	6.214	42.241	46.623	1.00	17.36	E	O
45	ATOM	8738	CG2	THR	E	542	6.457	40.230	45.312	1.00	18.95	E	C
	ATOM	8739	C	THR	E	542	4.673	38.850	47.192	1.00	21.64	E	C
	ATOM	8740	O	THR	E	542	4.181	38.276	46.220	1.00	22.63	E	O
	ATOM	8741	N	TYR	E	543	5.108	38.200	48.267	1.00	21.81	E	N
	ATOM	8742	CA	TYR	E	543	5.010	36.745	48.385	1.00	20.44	E	C
50	ATOM	8743	CB	TYR	E	543	5.608	36.302	49.722	1.00	21.23	E	C
	ATOM	8744	CG	TYR	E	543	5.812	34.811	49.873	1.00	19.66	E	C
	ATOM	8745	CD1	TYR	E	543	4.752	33.970	50.213	1.00	19.68	E	C
	ATOM	8746	CE1	TYR	E	543	4.941	32.601	50.385	1.00	18.66	E	C
	ATOM	8747	CD2	TYR	E	543	7.069	34.247	49.707	1.00	20.55	E	C
55	ATOM	8748	CE2	TYR	E	543	7.274	32.879	49.876	1.00	21.56	E	C
	ATOM	8749	CZ	TYR	E	543	6.205	32.063	50.215	1.00	20.69	E	C
	ATOM	8750	OH	TYR	E	543	6.411	30.712	50.381	1.00	20.17	E	O
	ATOM	8751	C	TYR	E	543	3.524	36.367	48.323	1.00	21.29	E	C
	ATOM	8752	O	TYR	E	543	3.109	35.487	47.559	1.00	20.91	E	O
60	ATOM	8753	N	TYR	E	544	2.725	37.046	49.136	1.00	20.60	E	N
	ATOM	8754	CA	TYR	E	544	1.292	36.807	49.166	1.00	21.00	E	C
	ATOM	8755	CB	TYR	E	544	0.619	37.763	50.164	1.00	21.23	E	C
	ATOM	8756	CG	TYR	E	544	0.439	37.225	51.570	1.00	22.43	E	C
	ATOM	8757	CD1	TYR	E	544	1.418	37.425	52.550	1.00	22.63	E	C
	ATOM	8758	CE1	TYR	E	544	1.230	36.972	53.860	1.00	20.96	E	C
65	ATOM	8759	CD2	TYR	E	544	-0.730	36.555	51.936	1.00	21.56	E	C
	ATOM	8760	CE2	TYR	E	544	-0.923	36.101	53.241	1.00	20.96	E	C
	ATOM	8761	CZ	TYR	E	544	0.056	36.314	54.195	1.00	21.15	E	C
	ATOM	8762	OH	TYR	E	544	-0.156	35.887	55.486	1.00	19.78	E	O

	ATOM	8763	C	TYR	E	544	0.722	37.060	47.759	1.00	22.15	E	C
	ATOM	8764	O	TYR	E	544	-0.003	36.227	47.209	1.00	21.51	E	O
	ATOM	8765	N	ALA	E	545	1.063	38.216	47.187	1.00	22.78	E	N
	ATOM	8766	CA	ALA	E	545	0.584	38.615	45.864	1.00	22.05	E	C
5	ATOM	8767	CB	ALA	E	545	1.176	39.970	45.489	1.00	21.66	E	C
	ATOM	8768	C	ALA	E	545	0.888	37.595	44.769	1.00	22.55	E	C
	ATOM	8769	O	ALA	E	545	0.002	37.220	43.999	1.00	21.78	E	O
	ATOM	8770	N	TYR	E	546	2.134	37.138	44.697	1.00	22.45	E	N
10	ATOM	8771	CA	TYR	E	546	2.499	36.177	43.667	1.00	22.33	E	C
	ATOM	8772	CB	TYR	E	546	3.977	35.789	43.780	1.00	23.92	E	C
	ATOM	8773	CG	TYR	E	546	4.354	34.691	42.810	1.00	27.09	E	C
	ATOM	8774	CD1	TYR	E	546	4.649	34.982	41.476	1.00	27.49	E	C
	ATOM	8775	CE1	TYR	E	546	4.897	33.969	40.557	1.00	26.65	E	C
	ATOM	8776	CD2	TYR	E	546	4.327	33.352	43.200	1.00	27.33	E	C
15	ATOM	8777	CE2	TYR	E	546	4.572	32.334	42.290	1.00	27.27	E	C
	ATOM	8778	CZ	TYR	E	546	4.851	32.650	40.970	1.00	28.60	E	C
	ATOM	8779	OH	TYR	E	546	5.054	31.639	40.059	1.00	31.36	E	O
	ATOM	8780	C	TYR	E	546	1.653	34.910	43.708	1.00	21.82	E	C
20	ATOM	8781	O	TYR	E	546	1.094	34.485	42.695	1.00	22.35	E	O
	ATOM	8782	N	TYR	E	547	1.554	34.309	44.888	1.00	21.55	E	N
	ATOM	8783	CA	TYR	E	547	0.808	33.070	45.036	1.00	20.44	E	C
	ATOM	8784	CB	TYR	E	547	1.177	32.408	46.368	1.00	19.22	E	C
	ATOM	8785	CG	TYR	E	547	2.547	31.762	46.285	1.00	17.90	E	C
	ATOM	8786	CD1	TYR	E	547	2.737	30.603	45.537	1.00	16.80	E	C
25	ATOM	8787	CE1	TYR	E	547	4.002	30.053	45.368	1.00	15.57	E	C
	ATOM	8788	CD2	TYR	E	547	3.670	32.356	46.873	1.00	18.80	E	C
	ATOM	8789	CE2	TYR	E	547	4.946	31.808	46.707	1.00	14.81	E	C
	ATOM	8790	CZ	TYR	E	547	5.098	30.655	45.949	1.00	16.72	E	C
	ATOM	8791	OH	TYR	E	547	6.345	30.092	45.760	1.00	20.10	E	O
30	ATOM	8792	C	TYR	E	547	-0.693	33.204	44.862	1.00	20.45	E	C
	ATOM	8793	O	TYR	E	547	-1.379	32.235	44.522	1.00	20.33	E	O
	ATOM	8794	N	MET	E	548	-1.211	34.404	45.075	1.00	19.93	E	N
	ATOM	8795	CA	MET	E	548	-2.631	34.622	44.878	1.00	20.76	E	C
35	ATOM	8796	CB	MET	E	548	-3.082	35.880	45.618	1.00	22.57	E	C
	ATOM	8797	CG	MET	E	548	-3.547	35.594	47.034	1.00	23.97	E	C
	ATOM	8798	SD	MET	E	548	-4.613	36.883	47.651	1.00	30.26	E	S
	ATOM	8799	CE	MET	E	548	-6.223	36.329	47.075	1.00	26.34	E	C
	ATOM	8800	C	MET	E	548	-2.833	34.773	43.371	1.00	21.41	E	C
40	ATOM	8801	O	MET	E	548	-3.825	34.300	42.809	1.00	20.98	E	O
	ATOM	8802	N	TYR	E	549	-1.871	35.417	42.717	1.00	19.91	E	N
	ATOM	8803	CA	TYR	E	549	-1.940	35.616	41.275	1.00	21.20	E	C
	ATOM	8804	CB	TYR	E	549	-0.812	36.551	40.811	1.00	20.30	E	C
	ATOM	8805	CG	TYR	E	549	-0.609	36.571	39.312	1.00	20.89	E	C
45	ATOM	8806	CD1	TYR	E	549	-1.431	37.340	38.489	1.00	20.00	E	C
	ATOM	8807	CE1	TYR	E	549	-1.274	37.336	37.104	1.00	21.86	E	C
	ATOM	8808	CD2	TYR	E	549	0.389	35.794	38.710	1.00	21.71	E	C
	ATOM	8809	CE2	TYR	E	549	0.557	35.781	37.323	1.00	21.59	E	C
	ATOM	8810	CZ	TYR	E	549	-0.282	36.555	36.530	1.00	22.02	E	C
50	ATOM	8811	OH	TYR	E	549	-0.146	36.546	35.166	1.00	22.47	E	O
	ATOM	8812	C	TYR	E	549	-1.816	34.267	40.565	1.00	21.08	E	C
	ATOM	8813	O	TYR	E	549	-2.598	33.942	39.673	1.00	20.45	E	O
	ATOM	8814	N	ALA	E	550	-0.827	33.486	40.986	1.00	21.80	E	N
	ATOM	8815	CA	ALA	E	550	-0.555	32.179	40.407	1.00	21.69	E	C
55	ATOM	8816	CB	ALA	E	550	0.646	31.549	41.111	1.00	20.29	E	C
	ATOM	8817	C	ALA	E	550	-1.749	31.225	40.445	1.00	22.55	E	C
	ATOM	8818	O	ALA	E	550	-2.059	30.570	39.446	1.00	22.31	E	O
	ATOM	8819	N	ASN	E	551	-2.416	31.139	41.593	1.00	22.14	E	N
	ATOM	8820	CA	ASN	E	551	-3.566	30.251	41.731	1.00	21.45	E	C
60	ATOM	8821	CB	ASN	E	551	-3.899	30.050	43.213	1.00	22.40	E	C
	ATOM	8822	CG	ASN	E	551	-3.009	29.018	43.872	1.00	22.18	E	C
	ATOM	8823	OD1	ASN	E	551	-2.026	29.357	44.538	1.00	22.20	E	O
	ATOM	8824	ND2	ASN	E	551	-3.343	27.748	43.685	1.00	20.83	E	N
	ATOM	8825	C	ASN	E	551	-4.801	30.769	40.988	1.00	22.39	E	C
65	ATOM	8826	O	ASN	E	551	-5.586	29.986	40.456	1.00	23.70	E	O
	ATOM	8827	N	ILE	E	552	-4.982	32.085	40.955	1.00	21.10	E	N
	ATOM	8828	CA	ILE	E	552	-6.125	32.666	40.263	1.00	19.74	E	C
	ATOM	8829	CB	ILE	E	552	-6.271	34.181	40.606	1.00	18.28	E	C
	ATOM	8830	CG2	ILE	E	552	-7.219	34.873	39.619	1.00	14.26	E	C

	ATOM	8831	CG1	ILE	E	552	-6.812	34.324	42.040	1.00	17.30	E	C
	ATOM	8832	CD1	ILE	E	552	-6.762	35.733	42.591	1.00	13.79	E	C
	ATOM	8833	C	ILE	E	552	-5.964	32.471	38.750	1.00	19.28	E	C
	ATOM	8834	O	ILE	E	552	-6.932	32.229	38.034	1.00	18.63	E	O
5	ATOM	8835	N	MET	E	553	-4.729	32.557	38.275	1.00	21.95	E	N
	ATOM	8836	CA	MET	E	553	-4.447	32.380	36.855	1.00	24.60	E	C
	ATOM	8837	CB	MET	E	553	-2.971	32.646	36.581	1.00	25.43	E	C
	ATOM	8838	CG	MET	E	553	-2.525	32.238	35.206	1.00	26.65	E	C
	ATOM	8839	SD	MET	E	553	-0.749	32.258	35.098	1.00	32.92	E	S
10	ATOM	8840	CE	MET	E	553	-0.464	30.632	34.450	1.00	33.59	E	C
	ATOM	8841	C	MET	E	553	-4.812	30.970	36.396	1.00	24.47	E	C
	ATOM	8842	O	MET	E	553	-5.534	30.790	35.411	1.00	24.40	E	O
	ATOM	8843	N	VAL	E	554	-4.312	29.971	37.117	1.00	23.39	E	N
	ATOM	8844	CA	VAL	E	554	-4.598	28.579	36.785	1.00	22.29	E	C
15	ATOM	8845	CB	VAL	E	554	-3.817	27.603	37.711	1.00	21.96	E	C
	ATOM	8846	CG1	VAL	E	554	-4.166	26.160	37.368	1.00	21.60	E	C
	ATOM	8847	CG2	VAL	E	554	-2.317	27.824	37.560	1.00	19.24	E	C
	ATOM	8848	C	VAL	E	554	-6.097	28.316	36.919	1.00	21.39	E	C
	ATOM	8849	O	VAL	E	554	-6.691	27.643	36.086	1.00	23.26	E	O
20	ATOM	8850	N	LEU	E	555	-6.709	28.864	37.963	1.00	20.92	E	N
	ATOM	8851	CA	LEU	E	555	-8.138	28.686	38.195	1.00	19.57	E	C
	ATOM	8852	CB	LEU	E	555	-8.539	29.337	39.523	1.00	18.07	E	C
	ATOM	8853	CG	LEU	E	555	-10.026	29.347	39.905	1.00	17.51	E	C
	ATOM	8854	CD1	LEU	E	555	-10.553	27.927	40.055	1.00	16.65	E	C
25	ATOM	8855	CD2	LEU	E	555	-10.196	30.104	41.203	1.00	16.19	E	C
	ATOM	8856	C	LEU	E	555	-8.959	29.290	37.066	1.00	19.00	E	C
	ATOM	8857	O	LEU	E	555	-9.979	28.730	36.660	1.00	18.26	E	O
	ATOM	8858	N	ASN	E	556	-8.512	30.440	36.568	1.00	19.50	E	N
	ATOM	8859	CA	ASN	E	556	-9.206	31.135	35.494	1.00	19.35	E	C
30	ATOM	8860	CB	ASN	E	556	-8.627	32.544	35.326	1.00	18.03	E	C
	ATOM	8861	CG	ASN	E	556	-9.203	33.539	36.325	1.00	17.93	E	C
	ATOM	8862	OD1	ASN	E	556	-10.233	33.285	36.953	1.00	18.98	E	O
	ATOM	8863	ND2	ASN	E	556	-8.540	34.678	36.474	1.00	16.14	E	N
	ATOM	8864	C	ASN	E	556	-9.112	30.357	34.181	1.00	20.71	E	C
35	ATOM	8865	O	ASN	E	556	-10.063	30.338	33.399	1.00	19.30	E	O
	ATOM	8866	N	SER	E	557	-7.968	29.715	33.947	1.00	22.89	E	N
	ATOM	8867	CA	SER	E	557	-7.763	28.922	32.736	1.00	23.52	E	C
	ATOM	8868	CB	SER	E	557	-6.343	28.367	32.682	1.00	22.89	E	C
	ATOM	8869	OG	SER	E	557	-5.407	29.405	32.480	1.00	31.20	E	O
40	ATOM	8870	C	SER	E	557	-8.738	27.760	32.756	1.00	24.98	E	C
	ATOM	8871	O	SER	E	557	-9.415	27.478	31.766	1.00	24.59	E	O
	ATOM	8872	N	LEU	E	558	-8.805	27.088	33.902	1.00	26.29	E	N
	ATOM	8873	CA	LEU	E	558	-9.694	25.949	34.071	1.00	25.84	E	C
	ATOM	8874	CB	LEU	E	558	-9.494	25.335	35.461	1.00	26.44	E	C
45	ATOM	8875	CG	LEU	E	558	-10.438	24.197	35.854	1.00	26.73	E	C
	ATOM	8876	CD1	LEU	E	558	-10.367	23.093	34.813	1.00	26.19	E	C
	ATOM	8877	CD2	LEU	E	558	-10.053	23.663	37.216	1.00	26.14	E	C
	ATOM	8878	C	LEU	E	558	-11.160	26.330	33.874	1.00	25.16	E	C
	ATOM	8879	O	LEU	E	558	-11.876	25.677	33.124	1.00	25.22	E	O
50	ATOM	8880	N	ARG	E	559	-11.601	27.394	34.537	1.00	25.62	E	N
	ATOM	8881	CA	ARG	E	559	-12.989	27.828	34.432	1.00	25.44	E	C
	ATOM	8882	CB	ARG	E	559	-13.294	28.875	35.510	1.00	24.19	E	C
	ATOM	8883	CG	ARG	E	559	-13.688	28.263	36.854	1.00	21.81	E	C
	ATOM	8884	CD	ARG	E	559	-13.903	29.324	37.914	1.00	19.01	E	C
55	ATOM	8885	NE	ARG	E	559	-15.303	29.717	38.038	1.00	15.21	E	N
	ATOM	8886	CZ	ARG	E	559	-16.227	29.001	38.668	1.00	15.32	E	C
	ATOM	8887	NH1	ARG	E	559	-15.898	27.848	39.233	1.00	14.07	E	N
	ATOM	8888	NH2	ARG	E	559	-17.476	29.441	38.747	1.00	11.97	E	N
	ATOM	8889	C	ARG	E	559	-13.351	28.376	33.056	1.00	26.51	E	C
60	ATOM	8890	O	ARG	E	559	-14.497	28.253	32.613	1.00	25.82	E	O
	ATOM	8891	N	LYS	E	560	-12.380	28.988	32.385	1.00	28.73	E	N
	ATOM	8892	CA	LYS	E	560	-12.619	29.541	31.056	1.00	29.88	E	C
	ATOM	8893	CB	LYS	E	560	-11.359	30.242	30.534	1.00	30.16	E	C
	ATOM	8894	CG	LYS	E	560	-11.448	30.708	29.085	1.00	32.64	E	C
65	ATOM	8895	CD	LYS	E	560	-12.199	32.032	28.959	1.00	35.72	E	C
	ATOM	8896	CE	LYS	E	560	-12.119	32.598	27.537	1.00	37.31	E	C
	ATOM	8897	NZ	LYS	E	560	-12.145	34.101	27.495	1.00	36.81	E	N
	ATOM	8898	C	LYS	E	560	-12.992	28.380	30.139	1.00	30.13	E	C

	ATOM	8899	O	LYS	E	560	-14.009	28.416	29.446	1.00	28.89	E	O
	ATOM	8900	N	GLU	E	561	-12.168	27.340	30.164	1.00	30.93	E	N
	ATOM	8901	CA	GLU	E	561	-12.396	26.164	29.344	1.00	32.85	E	C
	ATOM	8902	CB	GLU	E	561	-11.251	25.170	29.531	1.00	37.10	E	C
5	ATOM	8903	CG	GLU	E	561	-10.176	25.274	28.460	1.00	44.26	E	C
	ATOM	8904	CD	GLU	E	561	-9.108	24.208	28.605	1.00	48.73	E	C
	ATOM	8905	OE1	GLU	E	561	-9.458	23.054	28.948	1.00	49.39	E	O
	ATOM	8906	OE2	GLU	E	561	-7.918	24.526	28.378	1.00	50.98	E	O
	ATOM	8907	C	GLU	E	561	-13.726	25.480	29.641	1.00	32.00	E	C
10	ATOM	8908	O	GLU	E	561	-14.351	24.927	28.739	1.00	32.57	E	O
	ATOM	8909	N	ARG	E	562	-14.161	25.515	30.899	1.00	30.37	E	N
	ATOM	8910	CA	ARG	E	562	-15.428	24.887	31.281	1.00	27.49	E	C
	ATOM	8911	CB	ARG	E	562	-15.473	24.617	32.793	1.00	27.39	E	C
	ATOM	8912	CG	ARG	E	562	-14.329	23.753	33.328	1.00	29.13	E	C
15	ATOM	8913	CD	ARG	E	562	-14.848	22.627	34.207	1.00	28.96	E	C
	ATOM	8914	NE	ARG	E	562	-15.941	21.893	33.569	1.00	29.89	E	N
	ATOM	8915	CZ	ARG	E	562	-16.683	20.964	34.167	1.00	31.56	E	C
	ATOM	8916	NH1	ARG	E	562	-16.461	20.633	35.434	1.00	31.76	E	N
	ATOM	8917	NH2	ARG	E	562	-17.654	20.361	33.497	1.00	32.18	E	N
20	ATOM	8918	C	ARG	E	562	-16.596	25.785	30.903	1.00	25.29	E	C
	ATOM	8919	O	ARG	E	562	-17.754	25.385	30.986	1.00	25.13	E	O
	ATOM	8920	N	GLY	E	563	-16.287	27.005	30.488	1.00	24.83	E	N
	ATOM	8921	CA	GLY	E	563	-17.333	27.939	30.123	1.00	25.01	E	C
	ATOM	8922	C	GLY	E	563	-17.904	28.646	31.342	1.00	26.91	E	C
25	ATOM	8923	O	GLY	E	563	-19.002	29.211	31.284	1.00	26.66	E	O
	ATOM	8924	N	MET	E	564	-17.156	28.620	32.447	1.00	27.15	E	N
	ATOM	8925	CA	MET	E	564	-17.582	29.254	33.692	1.00	25.76	E	C
	ATOM	8926	CB	MET	E	564	-17.124	28.416	34.886	1.00	26.54	E	C
	ATOM	8927	CG	MET	E	564	-17.899	27.122	35.084	1.00	25.18	E	C
30	ATOM	8928	SD	MET	E	564	-17.006	25.922	36.106	1.00	27.22	E	S
	ATOM	8929	CE	MET	E	564	-18.333	24.949	36.714	1.00	24.14	E	C
	ATOM	8930	C	MET	E	564	-16.995	30.657	33.800	1.00	25.97	E	C
	ATOM	8931	O	MET	E	564	-16.144	31.044	32.996	1.00	27.01	E	O
	ATOM	8932	N	ASN	E	565	-17.443	31.417	34.800	1.00	25.09	E	N
35	ATOM	8933	CA	ASN	E	565	-16.946	32.779	35.000	1.00	22.00	E	C
	ATOM	8934	CB	ASN	E	565	-17.888	33.566	35.925	1.00	22.26	E	C
	ATOM	8935	CG	ASN	E	565	-18.076	32.907	37.284	1.00	21.96	E	C
	ATOM	8936	OD1	ASN	E	565	-18.507	31.758	37.380	1.00	20.77	E	O
	ATOM	8937	ND2	ASN	E	565	-17.758	33.644	38.344	1.00	20.19	E	N
40	ATOM	8938	C	ASN	E	565	-15.534	32.764	35.570	1.00	20.91	E	C
	ATOM	8939	O	ASN	E	565	-15.109	31.772	36.167	1.00	21.39	E	O
	ATOM	8940	N	THR	E	566	-14.797	33.852	35.364	1.00	18.84	E	N
	ATOM	8941	CA	THR	E	566	-13.435	33.944	35.872	1.00	17.72	E	C
	ATOM	8942	CB	THR	E	566	-12.424	34.190	34.730	1.00	18.78	E	C
45	ATOM	8943	OG1	THR	E	566	-12.809	35.351	33.985	1.00	19.12	E	O
	ATOM	8944	CG2	THR	E	566	-12.385	32.990	33.793	1.00	18.29	E	C
	ATOM	8945	C	THR	E	566	-13.367	35.069	36.905	1.00	16.32	E	C
	ATOM	8946	O	THR	E	566	-14.329	35.815	37.068	1.00	16.64	E	O
	ATOM	8947	N	PHE	E	567	-12.240	35.192	37.602	1.00	16.20	E	N
50	ATOM	8948	CA	PHE	E	567	-12.107	36.210	38.646	1.00	15.09	E	C
	ATOM	8949	CB	PHE	E	567	-11.942	35.542	40.021	1.00	13.34	E	C
	ATOM	8950	CG	PHE	E	567	-12.868	34.382	40.251	1.00	11.80	E	C
	ATOM	8951	CD1	PHE	E	567	-14.202	34.594	40.584	1.00	12.51	E	C
	ATOM	8952	CD2	PHE	E	567	-12.411	33.078	40.119	1.00	11.77	E	C
55	ATOM	8953	CE1	PHE	E	567	-15.073	33.516	40.782	1.00	14.10	E	C
	ATOM	8954	CE2	PHE	E	567	-13.269	31.994	40.312	1.00	11.77	E	C
	ATOM	8955	CZ	PHE	E	567	-14.601	32.212	40.645	1.00	10.85	E	C
	ATOM	8956	C	PHE	E	567	-10.971	37.193	38.460	1.00	15.72	E	C
	ATOM	8957	O	PHE	E	567	-9.937	36.877	37.875	1.00	17.90	E	O
60	ATOM	8958	N	LEU	E	568	-11.167	38.393	38.986	1.00	15.66	E	N
	ATOM	8959	CA	LEU	E	568	-10.155	39.430	38.903	1.00	15.31	E	C
	ATOM	8960	CB	LEU	E	568	-10.814	40.791	38.638	1.00	12.95	E	C
	ATOM	8961	CG	LEU	E	568	-11.575	40.972	37.319	1.00	11.22	E	C
	ATOM	8962	CD1	LEU	E	568	-12.088	42.390	37.235	1.00	8.24	E	C
65	ATOM	8963	CD2	LEU	E	568	-10.659	40.674	36.137	1.00	8.66	E	C
	ATOM	8964	C	LEU	E	568	-9.409	39.471	40.234	1.00	16.72	E	C
	ATOM	8965	O	LEU	E	568	-9.932	39.018	41.259	1.00	16.09	E	O
	ATOM	8966	N	PHE	E	569	-8.183	39.989	40.207	1.00	16.56	E	N

	ATOM	8967	CA	PHE	E	569	-7.377	40.137	41.411	1.00	15.51	E	C
	ATOM	8968	CB	PHE	E	569	-5.979	39.537	41.197	1.00	15.02	E	C
	ATOM	8969	CG	PHE	E	569	-5.072	39.629	42.403	1.00	13.65	E	C
	ATOM	8970	CD1	PHE	E	569	-5.566	39.415	43.689	1.00	13.58	E	C
5	ATOM	8971	CD2	PHE	E	569	-3.720	39.935	42.248	1.00	13.21	E	C
	ATOM	8972	CE1	PHE	E	569	-4.718	39.508	44.808	1.00	12.82	E	C
	ATOM	8973	CE2	PHE	E	569	-2.866	40.029	43.353	1.00	13.88	E	C
	ATOM	8974	CZ	PHE	E	569	-3.368	39.815	44.636	1.00	12.33	E	C
	ATOM	8975	C	PHE	E	569	-7.301	41.650	41.643	1.00	16.63	E	C
10	ATOM	8976	O	PHE	E	569	-6.696	42.371	40.849	1.00	16.42	E	O
	ATOM	8977	N	ARG	E	570	-7.937	42.122	42.718	1.00	15.77	E	N
	ATOM	8978	CA	ARG	E	570	-7.975	43.547	43.056	1.00	16.08	E	C
	ATOM	8979	CB	ARG	E	570	-9.382	44.097	42.797	1.00	14.00	E	C
	ATOM	8980	CG	ARG	E	570	-9.947	43.725	41.427	1.00	12.21	E	C
15	ATOM	8981	CD	ARG	E	570	-11.462	43.889	41.355	1.00	9.63	E	C
	ATOM	8982	NE	ARG	E	570	-11.896	45.219	41.777	1.00	11.72	E	N
	ATOM	8983	CZ	ARG	E	570	-13.151	45.652	41.736	1.00	9.36	E	C
	ATOM	8984	NH1	ARG	E	570	-14.113	44.863	41.287	1.00	11.07	E	N
	ATOM	8985	NH2	ARG	E	570	-13.453	46.869	42.167	1.00	9.66	E	N
20	ATOM	8986	C	ARG	E	570	-7.590	43.767	44.525	1.00	16.50	E	C
	ATOM	8987	O	ARG	E	570	-8.449	43.971	45.381	1.00	16.41	E	O
	ATOM	8988	N	PRO	E	571	-6.282	43.765	44.825	1.00	16.12	E	N
	ATOM	8989	CD	PRO	E	571	-5.167	43.610	43.871	1.00	15.76	E	C
	ATOM	8990	CA	PRO	E	571	-5.793	43.952	46.196	1.00	15.69	E	C
25	ATOM	8991	CB	PRO	E	571	-4.402	43.342	46.149	1.00	15.22	E	C
	ATOM	8992	CG	PRO	E	571	-3.932	43.691	44.759	1.00	15.57	E	C
	ATOM	8993	C	PRO	E	571	-5.731	45.388	46.705	1.00	17.14	E	C
	ATOM	8994	O	PRO	E	571	-5.775	46.348	45.929	1.00	16.07	E	O
	ATOM	8995	N	HIS	E	572	-5.635	45.519	48.026	1.00	14.30	E	N
30	ATOM	8996	CA	HIS	E	572	-5.487	46.826	48.645	1.00	13.78	E	C
	ATOM	8997	CB	HIS	E	572	-5.706	46.728	50.154	1.00	12.11	E	C
	ATOM	8998	CG	HIS	E	572	-7.128	46.921	50.576	1.00	9.60	E	C
	ATOM	8999	CD2	HIS	E	572	-7.686	47.786	51.453	1.00	12.33	E	C
	ATOM	9000	ND1	HIS	E	572	-8.163	46.156	50.082	1.00	8.46	E	N
35	ATOM	9001	CE1	HIS	E	572	-9.299	46.546	50.637	1.00	12.12	E	C
	ATOM	9002	NE2	HIS	E	572	-9.035	47.532	51.475	1.00	10.88	E	N
	ATOM	9003	C	HIS	E	572	-4.019	47.079	48.334	1.00	13.48	E	C
	ATOM	9004	O	HIS	E	572	-3.190	46.179	48.514	1.00	15.30	E	O
	ATOM	9005	N	CYS	E	573	-3.682	48.273	47.861	1.00	12.58	E	N
40	ATOM	9006	CA	CYS	E	573	-2.294	48.534	47.507	1.00	12.98	E	C
	ATOM	9007	CB	CYS	E	573	-2.019	47.942	46.122	1.00	12.68	E	C
	ATOM	9008	SG	CYS	E	573	-0.304	48.004	45.562	1.00	17.44	E	S
	ATOM	9009	C	CYS	E	573	-1.947	50.010	47.508	1.00	12.77	E	C
	ATOM	9010	O	CYS	E	573	-2.716	50.837	47.016	1.00	15.28	E	O
45	ATOM	9011	N	GLY	E	574	-0.786	50.333	48.065	1.00	13.85	E	N
	ATOM	9012	CA	GLY	E	574	-0.335	51.713	48.104	1.00	14.28	E	C
	ATOM	9013	C	GLY	E	574	-0.896	52.599	49.204	1.00	16.49	E	C
	ATOM	9014	O	GLY	E	574	-0.678	53.816	49.193	1.00	15.18	E	O
	ATOM	9015	N	GLU	E	575	-1.631	52.017	50.148	1.00	16.95	E	N
50	ATOM	9016	CA	GLU	E	575	-2.180	52.810	51.247	1.00	17.91	E	C
	ATOM	9017	CB	GLU	E	575	-3.154	51.985	52.076	1.00	15.95	E	C
	ATOM	9018	CG	GLU	E	575	-3.946	52.802	53.064	1.00	14.25	E	C
	ATOM	9019	CD	GLU	E	575	-4.920	51.955	53.841	1.00	15.53	E	C
	ATOM	9020	OE1	GLU	E	575	-5.945	52.494	54.309	1.00	18.92	E	O
55	ATOM	9021	OE2	GLU	E	575	-4.664	50.745	53.982	1.00	15.54	E	O
	ATOM	9022	C	GLU	E	575	-1.022	53.266	52.127	1.00	18.22	E	C
	ATOM	9023	O	GLU	E	575	-1.060	54.344	52.714	1.00	19.36	E	O
	ATOM	9024	N	VAL	E	576	-0.001	52.419	52.210	1.00	19.46	E	N
	ATOM	9025	CA	VAL	E	576	1.211	52.693	52.981	1.00	20.31	E	C
60	ATOM	9026	CB	VAL	E	576	0.944	52.750	54.502	1.00	21.41	E	C
	ATOM	9027	CG1	VAL	E	576	0.668	54.191	54.928	1.00	25.47	E	C
	ATOM	9028	CG2	VAL	E	576	-0.221	51.845	54.863	1.00	24.64	E	C
	ATOM	9029	C	VAL	E	576	2.193	51.566	52.710	1.00	19.09	E	C
	ATOM	9030	O	VAL	E	576	1.916	50.678	51.911	1.00	19.28	E	O
65	ATOM	9031	N	GLY	E	577	3.341	51.597	53.369	1.00	18.85	E	N
	ATOM	9032	CA	GLY	E	577	4.314	50.545	53.154	1.00	20.14	E	C
	ATOM	9033	C	GLY	E	577	5.279	50.850	52.023	1.00	20.99	E	C
	ATOM	9034	O	GLY	E	577	5.371	51.990	51.568	1.00	20.72	E	O

	ATOM	9035	N	ALA	E	578	5.989	49.822	51.569	1.00	20.96	E	N
	ATOM	9036	CA	ALA	E	578	6.972	49.948	50.496	1.00	22.50	E	C
	ATOM	9037	CB	ALA	E	578	7.851	48.700	50.465	1.00	22.01	E	C
5	ATOM	9038	C	ALA	E	578	6.360	50.183	49.112	1.00	22.54	E	C
	ATOM	9039	O	ALA	E	578	5.242	49.758	48.830	1.00	22.67	E	O
	ATOM	9040	N	LEU	E	579	7.114	50.855	48.249	1.00	25.02	E	N
	ATOM	9041	CA	LEU	E	579	6.667	51.148	46.890	1.00	25.37	E	C
	ATOM	9042	CB	LEU	E	579	7.661	52.076	46.186	1.00	24.89	E	C
10	ATOM	9043	CG	LEU	E	579	7.503	53.574	46.437	1.00	25.47	E	C
	ATOM	9044	CD1	LEU	E	579	8.648	54.306	45.780	1.00	25.78	E	C
	ATOM	9045	CD2	LEU	E	579	6.172	54.059	45.893	1.00	26.70	E	C
	ATOM	9046	C	LEU	E	579	6.555	49.862	46.097	1.00	25.56	E	C
	ATOM	9047	O	LEU	E	579	5.737	49.755	45.182	1.00	27.54	E	O
	ATOM	9048	N	THR	E	580	7.386	48.887	46.450	1.00	24.89	E	N
15	ATOM	9049	CA	THR	E	580	7.385	47.608	45.763	1.00	24.35	E	C
	ATOM	9050	CB	THR	E	580	8.373	46.624	46.421	1.00	25.80	E	C
	ATOM	9051	OG1	THR	E	580	7.943	46.322	47.752	1.00	28.66	E	O
	ATOM	9052	CG2	THR	E	580	9.759	47.236	46.476	1.00	27.24	E	C
	ATOM	9053	C	THR	E	580	5.997	46.980	45.728	1.00	23.52	E	C
20	ATOM	9054	O	THR	E	580	5.754	46.060	44.952	1.00	25.65	E	O
	ATOM	9055	N	HIS	E	581	5.088	47.470	46.566	1.00	21.12	E	N
	ATOM	9056	CA	HIS	E	581	3.730	46.941	46.588	1.00	20.50	E	C
	ATOM	9057	CB	HIS	E	581	2.945	47.469	47.796	1.00	20.43	E	C
	ATOM	9058	CG	HIS	E	581	3.444	46.973	49.116	1.00	20.61	E	C
25	ATOM	9059	CD2	HIS	E	581	4.527	46.229	49.441	1.00	20.44	E	C
	ATOM	9060	ND1	HIS	E	581	2.810	47.268	50.306	1.00	19.31	E	N
	ATOM	9061	CE1	HIS	E	581	3.485	46.729	51.305	1.00	17.81	E	C
	ATOM	9062	NE2	HIS	E	581	4.531	46.094	50.808	1.00	18.05	E	N
	ATOM	9063	C	HIS	E	581	2.993	47.377	45.331	1.00	19.47	E	C
30	ATOM	9064	O	HIS	E	581	2.162	46.639	44.804	1.00	18.92	E	O
	ATOM	9065	N	LEU	E	582	3.287	48.589	44.867	1.00	17.88	E	N
	ATOM	9066	CA	LEU	E	582	2.619	49.127	43.686	1.00	19.30	E	C
	ATOM	9067	CB	LEU	E	582	2.712	50.659	43.688	1.00	16.88	E	C
	ATOM	9068	CG	LEU	E	582	1.785	51.307	44.728	1.00	14.96	E	C
35	ATOM	9069	CD1	LEU	E	582	2.303	52.670	45.127	1.00	15.05	E	C
	ATOM	9070	CD2	LEU	E	582	0.379	51.411	44.157	1.00	13.86	E	C
	ATOM	9071	C	LEU	E	582	3.210	48.535	42.416	1.00	19.85	E	C
	ATOM	9072	O	LEU	E	582	2.537	48.430	41.386	1.00	21.35	E	O
	ATOM	9073	N	MET	E	583	4.469	48.126	42.506	1.00	20.30	E	N
40	ATOM	9074	CA	MET	E	583	5.153	47.525	41.380	1.00	19.96	E	C
	ATOM	9075	CB	MET	E	583	6.650	47.493	41.664	1.00	22.44	E	C
	ATOM	9076	CG	MET	E	583	7.481	46.838	40.590	1.00	27.99	E	C
	ATOM	9077	SD	MET	E	583	8.323	45.378	41.235	1.00	37.07	E	S
	ATOM	9078	CE	MET	E	583	7.092	44.147	40.947	1.00	30.70	E	C
45	ATOM	9079	C	MET	E	583	4.604	46.111	41.171	1.00	19.52	E	C
	ATOM	9080	O	MET	E	583	4.383	45.678	40.039	1.00	20.02	E	O
	ATOM	9081	N	THR	E	584	4.363	45.402	42.270	1.00	18.30	E	N
	ATOM	9082	CA	THR	E	584	3.845	44.035	42.209	1.00	17.42	E	C
	ATOM	9083	CB	THR	E	584	3.924	43.353	43.609	1.00	16.82	E	C
50	ATOM	9084	OG1	THR	E	584	5.294	43.244	44.003	1.00	14.41	E	O
	ATOM	9085	CG2	THR	E	584	3.332	41.956	43.572	1.00	17.64	E	C
	ATOM	9086	C	THR	E	584	2.406	44.014	41.691	1.00	17.19	E	C
	ATOM	9087	O	THR	E	584	1.987	43.062	41.027	1.00	17.84	E	O
	ATOM	9088	N	ALA	E	585	1.651	45.062	41.997	1.00	16.38	E	N
55	ATOM	9089	CA	ALA	E	585	0.270	45.158	41.535	1.00	16.41	E	C
	ATOM	9090	CB	ALA	E	585	-0.467	46.246	42.295	1.00	14.56	E	C
	ATOM	9091	C	ALA	E	585	0.268	45.471	40.039	1.00	16.61	E	C
	ATOM	9092	O	ALA	E	585	-0.644	45.074	39.314	1.00	16.40	E	O
	ATOM	9093	N	PHE	E	586	1.287	46.196	39.587	1.00	16.09	E	N
60	ATOM	9094	CA	PHE	E	586	1.407	46.535	38.177	1.00	16.98	E	C
	ATOM	9095	CB	PHE	E	586	2.642	47.418	37.938	1.00	16.13	E	C
	ATOM	9096	CG	PHE	E	586	2.876	47.765	36.487	1.00	16.75	E	C
	ATOM	9097	CD1	PHE	E	586	2.166	48.799	35.879	1.00	15.92	E	C
	ATOM	9098	CD2	PHE	E	586	3.792	47.045	35.725	1.00	17.03	E	C
65	ATOM	9099	CE1	PHE	E	586	2.363	49.106	34.540	1.00	16.23	E	C
	ATOM	9100	CE2	PHE	E	586	3.999	47.343	34.382	1.00	16.44	E	C
	ATOM	9101	CZ	PHE	E	586	3.285	48.373	33.787	1.00	17.02	E	C
	ATOM	9102	C	PHE	E	586	1.533	45.236	37.377	1.00	17.63	E	C

	ATOM	9103	O	PHE	E	586	1.019	45.134	36.261	1.00	19.69	E	O
	ATOM	9104	N	MET	E	587	2.200	44.245	37.965	1.00	15.52	E	N
	ATOM	9105	CA	MET	E	587	2.403	42.950	37.316	1.00	16.72	E	C
	ATOM	9106	CB	MET	E	587	3.655	42.254	37.862	1.00	16.50	E	C
5	ATOM	9107	CG	MET	E	587	4.950	43.021	37.783	1.00	19.85	E	C
	ATOM	9108	SD	MET	E	587	6.320	42.046	38.483	1.00	23.92	E	S
	ATOM	9109	CE	MET	E	587	6.303	40.565	37.443	1.00	20.26	E	C
	ATOM	9110	C	MET	E	587	1.263	41.945	37.478	1.00	17.30	E	C
	ATOM	9111	O	MET	E	587	1.051	41.102	36.606	1.00	18.02	E	O
10	ATOM	9112	N	THR	E	588	0.523	42.039	38.581	1.00	17.13	E	N
	ATOM	9113	CA	THR	E	588	-0.506	41.043	38.885	1.00	15.23	E	C
	ATOM	9114	CB	THR	E	588	-0.130	40.300	40.189	1.00	15.52	E	C
	ATOM	9115	OG1	THR	E	588	-0.044	41.254	41.255	1.00	15.49	E	O
	ATOM	9116	CG2	THR	E	588	1.219	39.601	40.059	1.00	14.39	E	C
15	ATOM	9117	C	THR	E	588	-1.972	41.415	39.042	1.00	14.54	E	C
	ATOM	9118	O	THR	E	588	-2.827	40.523	39.023	1.00	14.54	E	O
	ATOM	9119	N	ALA	E	589	-2.287	42.695	39.198	1.00	13.46	E	N
	ATOM	9120	CA	ALA	E	589	-3.679	43.061	39.432	1.00	13.81	E	C
	ATOM	9121	CB	ALA	E	589	-3.778	43.833	40.753	1.00	14.27	E	C
20	ATOM	9122	C	ALA	E	589	-4.431	43.824	38.347	1.00	14.67	E	C
	ATOM	9123	O	ALA	E	589	-3.875	44.690	37.680	1.00	15.18	E	O
	ATOM	9124	N	ASP	E	590	-5.713	43.496	38.199	1.00	14.67	E	N
	ATOM	9125	CA	ASP	E	590	-6.579	44.159	37.239	1.00	16.97	E	C
	ATOM	9126	CB	ASP	E	590	-7.957	43.503	37.242	1.00	16.18	E	C
25	ATOM	9127	CG	ASP	E	590	-8.868	44.054	36.158	1.00	19.00	E	C
	ATOM	9128	OD1	ASP	E	590	-9.622	45.010	36.442	1.00	17.69	E	O
	ATOM	9129	OD2	ASP	E	590	-8.835	43.530	35.022	1.00	17.28	E	O
	ATOM	9130	C	ASP	E	590	-6.691	45.629	37.659	1.00	18.55	E	C
	ATOM	9131	O	ASP	E	590	-6.503	46.536	36.852	1.00	19.44	E	O
30	ATOM	9132	N	ASN	E	591	-7.008	45.854	38.931	1.00	18.36	E	N
	ATOM	9133	CA	ASN	E	591	-7.111	47.205	39.479	1.00	16.70	E	C
	ATOM	9134	CB	ASN	E	591	-8.491	47.822	39.185	1.00	14.79	E	C
	ATOM	9135	CG	ASN	E	591	-9.627	47.071	39.836	1.00	15.45	E	C
	ATOM	9136	OD1	ASN	E	591	-10.327	46.285	39.190	1.00	15.13	E	O
35	ATOM	9137	ND2	ASN	E	591	-9.826	47.312	41.121	1.00	13.54	E	N
	ATOM	9138	C	ASN	E	591	-6.826	47.147	40.986	1.00	16.89	E	C
	ATOM	9139	O	ASN	E	591	-6.708	46.060	41.550	1.00	14.40	E	O
	ATOM	9140	N	ILE	E	592	-6.699	48.307	41.630	1.00	17.81	E	N
	ATOM	9141	CA	ILE	E	592	-6.392	48.345	43.062	1.00	16.02	E	C
40	ATOM	9142	CB	ILE	E	592	-4.910	48.738	43.312	1.00	15.34	E	C
	ATOM	9143	CG2	ILE	E	592	-3.971	47.756	42.633	1.00	14.49	E	C
	ATOM	9144	CG1	ILE	E	592	-4.655	50.155	42.787	1.00	14.68	E	C
	ATOM	9145	CD1	ILE	E	592	-3.466	50.855	43.442	1.00	11.38	E	C
	ATOM	9146	C	ILE	E	592	-7.251	49.314	43.867	1.00	15.99	E	C
45	ATOM	9147	O	ILE	E	592	-8.094	50.033	43.318	1.00	14.64	E	O
	ATOM	9148	N	SER	E	593	-7.023	49.307	45.182	1.00	15.66	E	N
	ATOM	9149	CA	SER	E	593	-7.716	50.188	46.118	1.00	14.69	E	C
	ATOM	9150	CB	SER	E	593	-8.514	49.376	47.127	1.00	14.32	E	C
	ATOM	9151	OG	SER	E	593	-9.680	48.855	46.533	1.00	13.72	E	O
50	ATOM	9152	C	SER	E	593	-6.663	51.009	46.851	1.00	13.68	E	C
	ATOM	9153	O	SER	E	593	-5.618	50.473	47.235	1.00	14.94	E	O
	ATOM	9154	N	HIS	E	594	-6.957	52.299	47.031	1.00	12.71	E	N
	ATOM	9155	CA	HIS	E	594	-6.091	53.288	47.703	1.00	12.59	E	C
	ATOM	9156	CB	HIS	E	594	-5.357	52.683	48.917	1.00	11.82	E	C
55	ATOM	9157	CG	HIS	E	594	-6.268	52.304	50.048	1.00	11.60	E	C
	ATOM	9158	CD2	HIS	E	594	-6.473	51.118	50.668	1.00	10.62	E	C
	ATOM	9159	ND1	HIS	E	594	-7.163	53.188	50.614	1.00	10.86	E	N
	ATOM	9160	CE1	HIS	E	594	-7.883	52.563	51.529	1.00	8.48	E	C
	ATOM	9161	NE2	HIS	E	594	-7.484	51.306	51.581	1.00	9.56	E	N
60	ATOM	9162	C	HIS	E	594	-5.088	53.910	46.732	1.00	12.67	E	C
	ATOM	9163	O	HIS	E	594	-5.343	54.984	46.203	1.00	13.29	E	O
	ATOM	9164	N	GLY	E	595	-3.958	53.249	46.503	1.00	12.49	E	N
	ATOM	9165	CA	GLY	E	595	-2.962	53.774	45.576	1.00	12.89	E	C
	ATOM	9166	C	GLY	E	595	-2.269	55.079	45.937	1.00	14.80	E	C
65	ATOM	9167	O	GLY	E	595	-1.615	55.689	45.091	1.00	13.80	E	O
	ATOM	9168	N	LEU	E	596	-2.381	55.497	47.195	1.00	16.55	E	N
	ATOM	9169	CA	LEU	E	596	-1.779	56.749	47.669	1.00	14.69	E	C
	ATOM	9170	CB	LEU	E	596	-1.991	56.891	49.180	1.00	14.99	E	C

	ATOM	9171	CG	LEU	E	596	-3.435	57.019	49.656	1.00	15.52	E	C
	ATOM	9172	CD1	LEU	E	596	-3.467	57.046	51.178	1.00	14.67	E	C
	ATOM	9173	CD2	LEU	E	596	-4.043	58.294	49.073	1.00	14.83	E	C
	ATOM	9174	C	LEU	E	596	-0.297	56.910	47.380	1.00	14.83	E	C
5	ATOM	9175	O	LEU	E	596	0.152	57.972	46.940	1.00	14.34	E	O
	ATOM	9176	N	ASN	E	597	0.465	55.857	47.636	1.00	15.52	E	N
	ATOM	9177	CA	ASN	E	597	1.898	55.906	47.428	1.00	16.77	E	C
	ATOM	9178	CB	ASN	E	597	2.539	54.667	48.052	1.00	15.83	E	C
	ATOM	9179	CG	ASN	E	597	2.789	54.844	49.533	1.00	18.18	E	C
10	ATOM	9180	OD1	ASN	E	597	2.709	55.959	50.052	1.00	19.19	E	O
	ATOM	9181	ND2	ASN	E	597	3.089	53.750	50.224	1.00	15.54	E	N
	ATOM	9182	C	ASN	E	597	2.391	56.109	45.989	1.00	17.50	E	C
	ATOM	9183	O	ASN	E	597	3.606	56.219	45.759	1.00	15.85	E	O
	ATOM	9184	N	LEU	E	598	1.475	56.168	45.021	1.00	17.75	E	N
15	ATOM	9185	CA	LEU	E	598	1.900	56.413	43.638	1.00	17.91	E	C
	ATOM	9186	CB	LEU	E	598	0.719	56.315	42.668	1.00	16.08	E	C
	ATOM	9187	CG	LEU	E	598	0.286	54.889	42.316	1.00	14.70	E	C
	ATOM	9188	CD1	LEU	E	598	-1.000	54.922	41.516	1.00	12.60	E	C
	ATOM	9189	CD2	LEU	E	598	1.399	54.194	41.545	1.00	12.25	E	C
20	ATOM	9190	C	LEU	E	598	2.483	57.826	43.610	1.00	19.27	E	C
	ATOM	9191	O	LEU	E	598	3.292	58.176	42.745	1.00	20.04	E	O
	ATOM	9192	N	LYS	E	599	2.067	58.623	44.587	1.00	19.25	E	N
	ATOM	9193	CA	LYS	E	599	2.521	59.994	44.737	1.00	20.95	E	C
	ATOM	9194	CB	LYS	E	599	1.848	60.636	45.950	1.00	24.30	E	C
25	ATOM	9195	CG	LYS	E	599	0.609	61.429	45.615	1.00	29.63	E	C
	ATOM	9196	CD	LYS	E	599	0.900	62.924	45.585	1.00	35.37	E	C
	ATOM	9197	CE	LYS	E	599	0.234	63.604	44.388	1.00	35.81	E	C
	ATOM	9198	NZ	LYS	E	599	1.161	63.703	43.223	1.00	39.20	E	N
	ATOM	9199	C	LYS	E	599	4.023	60.068	44.930	1.00	21.04	E	C
30	ATOM	9200	O	LYS	E	599	4.636	61.083	44.616	1.00	20.88	E	O
	ATOM	9201	N	LYS	E	600	4.610	58.997	45.457	1.00	20.93	E	N
	ATOM	9202	CA	LYS	E	600	6.048	58.965	45.714	1.00	21.61	E	C
	ATOM	9203	CB	LYS	E	600	6.327	58.211	47.012	1.00	22.91	E	C
	ATOM	9204	CG	LYS	E	600	5.586	58.738	48.229	1.00	26.96	E	C
35	ATOM	9205	CD	LYS	E	600	5.772	57.800	49.406	1.00	29.18	E	C
	ATOM	9206	CE	LYS	E	600	5.361	58.459	50.709	1.00	34.49	E	C
	ATOM	9207	NZ	LYS	E	600	5.462	57.514	51.868	1.00	37.32	E	N
	ATOM	9208	C	LYS	E	600	6.911	58.355	44.606	1.00	20.74	E	C
	ATOM	9209	O	LYS	E	600	8.134	58.354	44.714	1.00	20.29	E	O
40	ATOM	9210	N	SER	E	601	6.283	57.830	43.556	1.00	19.17	E	N
	ATOM	9211	CA	SER	E	601	7.025	57.216	42.454	1.00	19.18	E	C
	ATOM	9212	CB	SER	E	601	6.864	55.698	42.484	1.00	17.21	E	C
	ATOM	9213	OG	SER	E	601	7.676	55.096	41.497	1.00	19.02	E	O
	ATOM	9214	C	SER	E	601	6.551	57.735	41.102	1.00	18.80	E	C
45	ATOM	9215	O	SER	E	601	5.485	57.346	40.619	1.00	18.40	E	O
	ATOM	9216	N	PRO	E	602	7.345	58.611	40.469	1.00	18.93	E	N
	ATOM	9217	CD	PRO	E	602	8.651	59.104	40.943	1.00	19.27	E	C
	ATOM	9218	CA	PRO	E	602	6.991	59.178	39.162	1.00	18.57	E	C
	ATOM	9219	CB	PRO	E	602	8.115	60.180	38.889	1.00	19.25	E	C
50	ATOM	9220	CG	PRO	E	602	9.267	59.674	39.696	1.00	20.36	E	C
	ATOM	9221	C	PRO	E	602	6.916	58.087	38.097	1.00	17.92	E	C
	ATOM	9222	O	PRO	E	602	6.065	58.120	37.213	1.00	18.70	E	O
	ATOM	9223	N	VAL	E	603	7.814	57.116	38.200	1.00	17.85	E	N
	ATOM	9224	CA	VAL	E	603	7.857	56.016	37.255	1.00	17.14	E	C
55	ATOM	9225	CB	VAL	E	603	9.143	55.169	37.457	1.00	17.62	E	C
	ATOM	9226	CG1	VAL	E	603	9.163	53.998	36.482	1.00	16.80	E	C
	ATOM	9227	CG2	VAL	E	603	10.379	56.039	37.247	1.00	14.00	E	C
	ATOM	9228	C	VAL	E	603	6.609	55.130	37.388	1.00	17.95	E	C
	ATOM	9229	O	VAL	E	603	5.963	54.817	36.388	1.00	18.17	E	O
60	ATOM	9230	N	LEU	E	604	6.255	54.743	38.613	1.00	16.37	E	N
	ATOM	9231	CA	LEU	E	604	5.080	53.901	38.815	1.00	15.37	E	C
	ATOM	9232	CB	LEU	E	604	5.091	53.295	40.221	1.00	16.77	E	C
	ATOM	9233	CG	LEU	E	604	5.948	52.035	40.404	1.00	16.69	E	C
	ATOM	9234	CD1	LEU	E	604	6.161	51.756	41.888	1.00	16.40	E	C
65	ATOM	9235	CD2	LEU	E	604	5.266	50.854	39.744	1.00	15.16	E	C
	ATOM	9236	C	LEU	E	604	3.776	54.667	38.584	1.00	15.63	E	C
	ATOM	9237	O	LEU	E	604	2.796	54.105	38.102	1.00	16.59	E	O
	ATOM	9238	N	GLN	E	605	3.761	55.950	38.931	1.00	13.73	E	N

	ATOM	9239	CA	GLN	E	605	2.570	56.771	38.731	1.00	13.92	E	C
	ATOM	9240	CB	GLN	E	605	2.764	58.144	39.376	1.00	13.06	E	C
	ATOM	9241	CG	GLN	E	605	1.509	59.001	39.417	1.00	11.22	E	C
5	ATOM	9242	CD	GLN	E	605	1.797	60.384	39.955	1.00	14.76	E	C
	ATOM	9243	OE1	GLN	E	605	2.710	60.556	40.769	1.00	16.84	E	O
	ATOM	9244	NE2	GLN	E	605	1.030	61.377	39.512	1.00	8.39	E	N
	ATOM	9245	C	GLN	E	605	2.278	56.947	37.235	1.00	13.62	E	C
	ATOM	9246	O	GLN	E	605	1.121	56.938	36.811	1.00	12.77	E	O
10	ATOM	9247	N	TYR	E	606	3.339	57.113	36.447	1.00	13.16	E	N
	ATOM	9248	CA	TYR	E	606	3.213	57.285	34.999	1.00	13.86	E	C
	ATOM	9249	CB	TYR	E	606	4.548	57.767	34.410	1.00	12.91	E	C
	ATOM	9250	CG	TYR	E	606	4.452	58.296	32.992	1.00	14.13	E	C
	ATOM	9251	CD1	TYR	E	606	3.551	59.316	32.661	1.00	14.91	E	C
15	ATOM	9252	CE1	TYR	E	606	3.469	59.810	31.362	1.00	15.28	E	C
	ATOM	9253	CD2	TYR	E	606	5.270	57.783	31.983	1.00	14.06	E	C
	ATOM	9254	CE2	TYR	E	606	5.197	58.269	30.680	1.00	14.13	E	C
	ATOM	9255	CZ	TYR	E	606	4.299	59.278	30.377	1.00	14.81	E	C
	ATOM	9256	OH	TYR	E	606	4.231	59.758	29.091	1.00	17.15	E	O
20	ATOM	9257	C	TYR	E	606	2.782	55.968	34.346	1.00	12.33	E	C
	ATOM	9258	O	TYR	E	606	1.955	55.959	33.432	1.00	12.21	E	O
	ATOM	9259	N	LEU	E	607	3.335	54.859	34.831	1.00	12.30	E	N
	ATOM	9260	CA	LEU	E	607	2.990	53.543	34.309	1.00	12.66	E	C
	ATOM	9261	CB	LEU	E	607	3.855	52.466	34.959	1.00	11.34	E	C
25	ATOM	9262	CG	LEU	E	607	5.269	52.346	34.391	1.00	12.39	E	C
	ATOM	9263	CD1	LEU	E	607	6.003	51.231	35.106	1.00	11.58	E	C
	ATOM	9264	CD2	LEU	E	607	5.206	52.080	32.901	1.00	12.65	E	C
	ATOM	9265	C	LEU	E	607	1.522	53.246	34.570	1.00	12.77	E	C
	ATOM	9266	O	LEU	E	607	0.852	52.619	33.753	1.00	14.97	E	O
30	ATOM	9267	N	PHE	E	608	1.012	53.694	35.708	1.00	13.51	E	N
	ATOM	9268	CA	PHE	E	608	-0.392	53.454	36.017	1.00	12.28	E	C
	ATOM	9269	CB	PHE	E	608	-0.686	53.785	37.483	1.00	12.39	E	C
	ATOM	9270	CG	PHE	E	608	-0.569	52.597	38.406	1.00	12.21	E	C
	ATOM	9271	CD1	PHE	E	608	0.663	51.986	38.619	1.00	12.37	E	C
35	ATOM	9272	CD2	PHE	E	608	-1.686	52.090	39.054	1.00	8.41	E	C
	ATOM	9273	CE1	PHE	E	608	0.779	50.886	39.465	1.00	12.63	E	C
	ATOM	9274	CE2	PHE	E	608	-1.583	50.993	39.899	1.00	10.56	E	C
	ATOM	9275	CZ	PHE	E	608	-0.351	50.389	40.107	1.00	11.34	E	C
	ATOM	9276	C	PHE	E	608	-1.268	54.293	35.093	1.00	11.86	E	C
40	ATOM	9277	O	PHE	E	608	-2.395	53.918	34.786	1.00	13.69	E	O
	ATOM	9278	N	PHE	E	609	-0.747	55.437	34.661	1.00	13.25	E	N
	ATOM	9279	CA	PHE	E	609	-1.468	56.305	33.737	1.00	13.42	E	C
	ATOM	9280	CB	PHE	E	609	-0.807	57.683	33.673	1.00	13.62	E	C
	ATOM	9281	CG	PHE	E	609	-1.268	58.512	32.504	1.00	13.51	E	C
45	ATOM	9282	CD1	PHE	E	609	-0.478	58.629	31.357	1.00	13.47	E	C
	ATOM	9283	CD2	PHE	E	609	-2.517	59.129	32.524	1.00	9.85	E	C
	ATOM	9284	CE1	PHE	E	609	-0.932	59.345	30.244	1.00	9.27	E	C
	ATOM	9285	CE2	PHE	E	609	-2.974	59.844	31.422	1.00	8.56	E	C
	ATOM	9286	CZ	PHE	E	609	-2.178	59.949	30.278	1.00	6.93	E	C
50	ATOM	9287	C	PHE	E	609	-1.455	55.677	32.328	1.00	13.99	E	C
	ATOM	9288	O	PHE	E	609	-2.491	55.555	31.678	1.00	13.11	E	O
	ATOM	9289	N	LEU	E	610	-0.271	55.281	31.870	1.00	14.06	E	N
	ATOM	9290	CA	LEU	E	610	-0.119	54.675	30.553	1.00	14.57	E	C
	ATOM	9291	CB	LEU	E	610	1.349	54.338	30.295	1.00	14.30	E	C
55	ATOM	9292	CG	LEU	E	610	2.319	55.510	30.182	1.00	12.11	E	C
	ATOM	9293	CD1	LEU	E	610	3.724	54.964	30.026	1.00	12.35	E	C
	ATOM	9294	CD2	LEU	E	610	1.946	56.390	28.995	1.00	11.35	E	C
	ATOM	9295	C	LEU	E	610	-0.964	53.416	30.402	1.00	16.07	E	C
	ATOM	9296	O	LEU	E	610	-1.598	53.206	29.365	1.00	19.31	E	O
60	ATOM	9297	N	ALA	E	611	-0.968	52.571	31.428	1.00	15.95	E	N
	ATOM	9298	CA	ALA	E	611	-1.755	51.340	31.393	1.00	14.61	E	C
	ATOM	9299	CB	ALA	E	611	-1.114	50.285	32.288	1.00	14.94	E	C
	ATOM	9300	C	ALA	E	611	-3.197	51.588	31.825	1.00	13.48	E	C
	ATOM	9301	O	ALA	E	611	-4.023	50.682	31.788	1.00	14.87	E	O
65	ATOM	9302	N	GLN	E	612	-3.494	52.820	32.224	1.00	12.42	E	N
	ATOM	9303	CA	GLN	E	612	-4.831	53.199	32.678	1.00	12.54	E	C
	ATOM	9304	CB	GLN	E	612	-5.794	53.275	31.482	1.00	12.11	E	C
	ATOM	9305	CG	GLN	E	612	-5.749	54.594	30.709	1.00	10.75	E	C
	ATOM	9306	CD	GLN	E	612	-6.023	55.810	31.584	1.00	13.92	E	C

	ATOM	9307	OE1	GLN	E	612	-7.166	56.099	31.922	1.00	13.57	E	O
	ATOM	9308	NE2	GLN	E	612	-4.966	56.528	31.954	1.00	15.19	E	N
	ATOM	9309	C	GLN	E	612	-5.396	52.243	33.750	1.00	12.25	E	C
	ATOM	9310	O	GLN	E	612	-6.565	51.846	33.696	1.00	11.73	E	O
5	ATOM	9311	N	ILE	E	613	-4.566	51.884	34.727	1.00	11.09	E	N
	ATOM	9312	CA	ILE	E	613	-4.987	50.975	35.795	1.00	11.00	E	C
	ATOM	9313	CB	ILE	E	613	-3.762	50.498	36.622	1.00	8.41	E	C
	ATOM	9314	CG2	ILE	E	613	-4.194	49.446	37.649	1.00	6.58	E	C
	ATOM	9315	CG1	ILE	E	613	-2.699	49.929	35.675	1.00	6.78	E	C
10	ATOM	9316	CD1	ILE	E	613	-1.454	49.399	36.354	1.00	5.89	E	C
	ATOM	9317	C	ILE	E	613	-6.001	51.650	36.729	1.00	10.80	E	C
	ATOM	9318	O	ILE	E	613	-5.705	52.671	37.343	1.00	12.87	E	O
	ATOM	9319	N	PRO	E	614	-7.218	51.089	36.840	1.00	9.37	E	N
	ATOM	9320	CD	PRO	E	614	-7.721	49.877	36.178	1.00	7.49	E	C
15	ATOM	9321	CA	PRO	E	614	-8.224	51.698	37.724	1.00	10.73	E	C
	ATOM	9322	CB	PRO	E	614	-9.482	50.858	37.493	1.00	10.43	E	C
	ATOM	9323	CG	PRO	E	614	-9.203	50.038	36.275	1.00	9.62	E	C
	ATOM	9324	C	PRO	E	614	-7.802	51.689	39.200	1.00	10.57	E	C
	ATOM	9325	O	PRO	E	614	-7.262	50.700	39.697	1.00	9.61	E	O
20	ATOM	9326	N	ILE	E	615	-8.053	52.805	39.881	1.00	11.63	E	N
	ATOM	9327	CA	ILE	E	615	-7.721	52.953	41.299	1.00	11.85	E	C
	ATOM	9328	CB	ILE	E	615	-6.585	53.989	41.511	1.00	11.27	E	C
	ATOM	9329	CG2	ILE	E	615	-6.290	54.157	43.004	1.00	10.99	E	C
	ATOM	9330	CG1	ILE	E	615	-5.319	53.534	40.789	1.00	9.54	E	C
25	ATOM	9331	CD1	ILE	E	615	-4.398	54.679	40.394	1.00	9.58	E	C
	ATOM	9332	C	ILE	E	615	-8.949	53.426	42.079	1.00	12.41	E	C
	ATOM	9333	O	ILE	E	615	-9.476	54.510	41.819	1.00	13.07	E	O
	ATOM	9334	N	ALA	E	616	-9.422	52.600	43.011	1.00	11.73	E	N
	ATOM	9335	CA	ALA	E	616	-10.567	52.975	43.841	1.00	12.32	E	C
30	ATOM	9336	CB	ALA	E	616	-11.322	51.728	44.307	1.00	10.95	E	C
	ATOM	9337	C	ALA	E	616	-9.983	53.717	45.043	1.00	11.48	E	C
	ATOM	9338	O	ALA	E	616	-9.233	53.132	45.832	1.00	9.91	E	O
	ATOM	9339	N	MET	E	617	-10.306	55.002	45.166	1.00	10.91	E	N
	ATOM	9340	CA	MET	E	617	-9.802	55.816	46.269	1.00	11.20	E	C
35	ATOM	9341	CB	MET	E	617	-9.217	57.127	45.728	1.00	11.47	E	C
	ATOM	9342	CG	MET	E	617	-8.238	56.966	44.565	1.00	11.90	E	C
	ATOM	9343	SD	MET	E	617	-7.006	58.297	44.459	1.00	14.32	E	S
	ATOM	9344	CE	MET	E	617	-7.724	59.325	43.341	1.00	19.72	E	C
	ATOM	9345	C	MET	E	617	-10.884	56.115	47.321	1.00	12.52	E	C
40	ATOM	9346	O	MET	E	617	-12.083	56.161	47.005	1.00	11.34	E	O
	ATOM	9347	N	SER	E	618	-10.446	56.313	48.568	1.00	13.55	E	N
	ATOM	9348	CA	SER	E	618	-11.333	56.598	49.702	1.00	13.29	E	C
	ATOM	9349	CB	SER	E	618	-11.508	55.349	50.568	1.00	13.03	E	C
	ATOM	9350	OG	SER	E	618	-11.735	54.202	49.774	1.00	17.03	E	O
45	ATOM	9351	C	SER	E	618	-10.732	57.695	50.560	1.00	13.94	E	C
	ATOM	9352	O	SER	E	618	-10.093	57.411	51.568	1.00	15.86	E	O
	ATOM	9353	N	PRO	E	619	-10.906	58.963	50.160	1.00	14.32	E	N
	ATOM	9354	CD	PRO	E	619	-11.596	59.400	48.934	1.00	13.19	E	C
	ATOM	9355	CA	PRO	E	619	-10.364	60.102	50.913	1.00	14.11	E	C
50	ATOM	9356	CB	PRO	E	619	-10.749	61.316	50.062	1.00	13.84	E	C
	ATOM	9357	CG	PRO	E	619	-10.998	60.755	48.688	1.00	13.52	E	C
	ATOM	9358	C	PRO	E	619	-10.831	60.240	52.365	1.00	14.36	E	C
	ATOM	9359	O	PRO	E	619	-10.045	60.610	53.228	1.00	15.02	E	O
	ATOM	9360	N	LEU	E	620	-12.098	59.952	52.642	1.00	14.28	E	N
55	ATOM	9361	CA	LEU	E	620	-12.592	60.061	54.011	1.00	14.72	E	C
	ATOM	9362	CB	LEU	E	620	-14.112	59.891	54.054	1.00	12.81	E	C
	ATOM	9363	CG	LEU	E	620	-14.896	61.143	53.627	1.00	12.95	E	C
	ATOM	9364	CD1	LEU	E	620	-16.385	60.858	53.661	1.00	13.00	E	C
	ATOM	9365	CD2	LEU	E	620	-14.562	62.307	54.543	1.00	14.94	E	C
60	ATOM	9366	C	LEU	E	620	-11.911	59.018	54.900	1.00	16.27	E	C
	ATOM	9367	O	LEU	E	620	-11.518	59.315	56.031	1.00	15.95	E	O
	ATOM	9368	N	SER	E	621	-11.757	57.803	54.382	1.00	16.18	E	N
	ATOM	9369	CA	SER	E	621	-11.105	56.739	55.131	1.00	15.83	E	C
	ATOM	9370	CB	SER	E	621	-11.247	55.415	54.388	1.00	16.22	E	C
65	ATOM	9371	OG	SER	E	621	-10.277	54.482	54.820	1.00	16.32	E	O
	ATOM	9372	C	SER	E	621	-9.625	57.071	55.348	1.00	17.98	E	C
	ATOM	9373	O	SER	E	621	-9.103	56.896	56.449	1.00	18.18	E	O
	ATOM	9374	N	ASN	E	622	-8.955	57.560	54.302	1.00	17.48	E	N

5	ATOM	9375	CA	ASN	E	622	-7.543	57.929	54.398	1.00	18.13	E	C
	ATOM	9376	CB	ASN	E	622	-7.015	58.445	53.058	1.00	16.65	E	C
	ATOM	9377	CG	ASN	E	622	-7.129	57.430	51.939	1.00	18.88	E	C
	ATOM	9378	OD1	ASN	E	622	-7.021	57.788	50.770	1.00	19.24	E	O
	ATOM	9379	ND2	ASN	E	622	-7.337	56.168	52.285	1.00	16.28	E	N
	ATOM	9380	C	ASN	E	622	-7.346	59.036	55.439	1.00	17.76	E	C
	ATOM	9381	O	ASN	E	622	-6.373	59.038	56.190	1.00	17.86	E	O
10	ATOM	9382	N	ASN	E	623	-8.272	59.984	55.453	1.00	17.79	E	N
	ATOM	9383	CA	ASN	E	623	-8.227	61.110	56.376	1.00	22.05	E	C
	ATOM	9384	CB	ASN	E	623	-9.404	62.041	56.085	1.00	20.74	E	C
	ATOM	9385	CG	ASN	E	623	-9.542	63.157	57.104	1.00	22.23	E	C
	ATOM	9386	OD1	ASN	E	623	-10.554	63.245	57.804	1.00	21.52	E	O
	ATOM	9387	ND2	ASN	E	623	-8.535	64.022	57.186	1.00	19.11	E	N
	ATOM	9388	C	ASN	E	623	-8.266	60.656	57.835	1.00	24.12	E	C
15	ATOM	9389	O	ASN	E	623	-7.681	61.286	58.709	1.00	25.10	E	O
	ATOM	9390	N	SER	E	624	-8.951	59.549	58.084	1.00	27.91	E	N
	ATOM	9391	CA	SER	E	624	-9.082	59.010	59.426	1.00	32.44	E	C
	ATOM	9392	CB	SER	E	624	-10.469	58.393	59.592	1.00	33.24	E	C
	ATOM	9393	OG	SER	E	624	-11.036	58.723	60.842	1.00	39.10	E	O
	ATOM	9394	C	SER	E	624	-8.041	57.952	59.756	1.00	34.43	E	C
	ATOM	9395	O	SER	E	624	-7.933	57.535	60.904	1.00	37.15	E	O
20	ATOM	9396	N	LEU	E	625	-7.269	57.523	58.765	1.00	35.66	E	N
	ATOM	9397	CA	LEU	E	625	-6.286	56.469	58.991	1.00	38.25	E	C
	ATOM	9398	CB	LEU	E	625	-6.710	55.214	58.212	1.00	40.82	E	C
	ATOM	9399	CG	LEU	E	625	-7.163	53.924	58.912	1.00	42.79	E	C
	ATOM	9400	CD1	LEU	E	625	-6.944	54.006	60.406	1.00	45.12	E	C
	ATOM	9401	CD2	LEU	E	625	-8.620	53.683	58.613	1.00	43.09	E	C
	ATOM	9402	C	LEU	E	625	-4.816	56.768	58.676	1.00	37.83	E	C
30	ATOM	9403	O	LEU	E	625	-3.942	56.452	59.481	1.00	38.55	E	O
	ATOM	9404	N	PHE	E	626	-4.534	57.363	57.518	1.00	35.67	E	N
	ATOM	9405	CA	PHE	E	626	-3.145	57.620	57.140	1.00	33.62	E	C
	ATOM	9406	CB	PHE	E	626	-2.676	56.541	56.153	1.00	33.80	E	C
	ATOM	9407	CG	PHE	E	626	-2.626	55.152	56.735	1.00	35.62	E	C
	ATOM	9408	CD1	PHE	E	626	-1.501	54.709	57.428	1.00	35.75	E	C
	ATOM	9409	CD2	PHE	E	626	-3.701	54.276	56.574	1.00	36.96	E	C
35	ATOM	9410	CE1	PHE	E	626	-1.447	53.412	57.955	1.00	36.59	E	C
	ATOM	9411	CE2	PHE	E	626	-3.658	52.977	57.096	1.00	36.73	E	C
	ATOM	9412	CZ	PHE	E	626	-2.529	52.545	57.788	1.00	37.31	E	C
	ATOM	9413	C	PHE	E	626	-2.799	58.984	56.540	1.00	32.21	E	C
	ATOM	9414	O	PHE	E	626	-1.650	59.402	56.598	1.00	31.72	E	O
	ATOM	9415	N	LEU	E	627	-3.772	59.682	55.965	1.00	31.79	E	N
	ATOM	9416	CA	LEU	E	627	-3.486	60.968	55.326	1.00	30.29	E	C
40	ATOM	9417	CB	LEU	E	627	-3.233	60.742	53.834	1.00	29.51	E	C
	ATOM	9418	CG	LEU	E	627	-2.051	61.361	53.090	1.00	29.18	E	C
	ATOM	9419	CD1	LEU	E	627	-2.445	61.506	51.630	1.00	29.00	E	C
	ATOM	9420	CD2	LEU	E	627	-1.663	62.700	53.670	1.00	28.91	E	C
	ATOM	9421	C	LEU	E	627	-4.606	61.983	55.474	1.00	29.15	E	C
	ATOM	9422	O	LEU	E	627	-5.752	61.690	55.156	1.00	30.23	E	O
	ATOM	9423	N	GLU	E	628	-4.262	63.182	55.927	1.00	28.56	E	N
50	ATOM	9424	CA	GLU	E	628	-5.234	64.260	56.114	1.00	30.09	E	C
	ATOM	9425	CB	GLU	E	628	-4.519	65.498	56.668	1.00	32.86	E	C
	ATOM	9426	CG	GLU	E	628	-5.159	66.834	56.327	1.00	40.81	E	C
	ATOM	9427	CD	GLU	E	628	-4.222	67.999	56.593	1.00	45.01	E	C
	ATOM	9428	OE1	GLU	E	628	-3.192	67.790	57.271	1.00	48.08	E	O
	ATOM	9429	OE2	GLU	E	628	-4.510	69.123	56.125	1.00	48.28	E	O
	ATOM	9430	C	GLU	E	628	-5.947	64.592	54.795	1.00	28.27	E	C
55	ATOM	9431	O	GLU	E	628	-5.310	64.673	53.742	1.00	28.31	E	O
	ATOM	9432	N	TYR	E	629	-7.261	64.803	54.861	1.00	24.58	E	N
	ATOM	9433	CA	TYR	E	629	-8.059	65.085	53.670	1.00	24.19	E	C
	ATOM	9434	CB	TYR	E	629	-9.449	65.606	54.049	1.00	21.18	E	C
	ATOM	9435	CG	TYR	E	629	-10.478	65.283	52.985	1.00	20.64	E	C
	ATOM	9436	CD1	TYR	E	629	-10.621	66.087	51.851	1.00	20.98	E	C
	ATOM	9437	CE1	TYR	E	629	-11.502	65.735	50.818	1.00	20.39	E	C
60	ATOM	9438	CD2	TYR	E	629	-11.249	64.125	53.066	1.00	20.61	E	C
	ATOM	9439	CE2	TYR	E	629	-12.132	63.766	52.041	1.00	19.59	E	C
	ATOM	9440	CZ	TYR	E	629	-12.249	64.571	50.920	1.00	19.07	E	C
	ATOM	9441	OH	TYR	E	629	-13.089	64.187	49.900	1.00	20.94	E	O
	ATOM	9442	C	TYR	E	629	-7.452	66.024	52.629	1.00	24.63	E	C

	ATOM	9443	O	TYR	E	629	-7.223	65.627	51.488	1.00	24.29	E	O
	ATOM	9444	N	ALA	E	630	-7.197	67.266	53.019	1.00	25.29	E	N
	ATOM	9445	CA	ALA	E	630	-6.641	68.255	52.105	1.00	25.30	E	C
5	ATOM	9446	CB	ALA	E	630	-6.451	69.581	52.837	1.00	25.32	E	C
	ATOM	9447	C	ALA	E	630	-5.333	67.828	51.438	1.00	25.76	E	C
	ATOM	9448	O	ALA	E	630	-4.950	68.378	50.406	1.00	28.37	E	O
	ATOM	9449	N	LYS	E	631	-4.654	66.844	52.016	1.00	25.06	E	N
	ATOM	9450	CA	LYS	E	631	-3.389	66.364	51.468	1.00	24.17	E	C
10	ATOM	9451	CB	LYS	E	631	-2.467	65.924	52.611	1.00	26.18	E	C
	ATOM	9452	CG	LYS	E	631	-1.502	66.993	53.100	1.00	31.48	E	C
	ATOM	9453	CD	LYS	E	631	-2.230	68.258	53.520	1.00	37.20	E	C
	ATOM	9454	CE	LYS	E	631	-1.383	69.507	53.264	1.00	41.19	E	C
	ATOM	9455	NZ	LYS	E	631	-1.966	70.727	53.912	1.00	44.22	E	N
15	ATOM	9456	C	LYS	E	631	-3.568	65.192	50.493	1.00	21.76	E	C
	ATOM	9457	O	LYS	E	631	-2.595	64.699	49.924	1.00	21.51	E	O
	ATOM	9458	N	ASN	E	632	-4.808	64.751	50.298	1.00	18.24	E	N
	ATOM	9459	CA	ASN	E	632	-5.083	63.617	49.417	1.00	17.34	E	C
	ATOM	9460	CB	ASN	E	632	-6.543	63.192	49.559	1.00	15.67	E	C
20	ATOM	9461	CG	ASN	E	632	-6.760	61.751	49.184	1.00	15.93	E	C
	ATOM	9462	OD1	ASN	E	632	-6.963	60.899	50.050	1.00	14.49	E	O
	ATOM	9463	ND2	ASN	E	632	-6.718	61.461	47.882	1.00	13.92	E	N
	ATOM	9464	C	ASN	E	632	-4.770	63.860	47.941	1.00	15.13	E	C
	ATOM	9465	O	ASN	E	632	-5.197	64.859	47.365	1.00	15.77	E	O
25	ATOM	9466	N	PRO	E	633	-4.028	62.935	47.308	1.00	15.98	E	N
	ATOM	9467	CD	PRO	E	633	-3.459	61.703	47.890	1.00	16.51	E	C
	ATOM	9468	CA	PRO	E	633	-3.673	63.072	45.890	1.00	16.19	E	C
	ATOM	9469	CB	PRO	E	633	-2.535	62.072	45.708	1.00	16.63	E	C
	ATOM	9470	CG	PRO	E	633	-2.828	61.005	46.702	1.00	15.68	E	C
30	ATOM	9471	C	PRO	E	633	-4.822	62.790	44.929	1.00	15.42	E	C
	ATOM	9472	O	PRO	E	633	-4.602	62.661	43.735	1.00	16.66	E	O
	ATOM	9473	N	PHE	E	634	-6.041	62.699	45.444	1.00	16.47	E	N
	ATOM	9474	CA	PHE	E	634	-7.206	62.421	44.607	1.00	16.70	E	C
	ATOM	9475	CB	PHE	E	634	-8.491	62.433	45.452	1.00	16.03	E	C
35	ATOM	9476	CG	PHE	E	634	-9.753	62.392	44.632	1.00	17.45	E	C
	ATOM	9477	CD1	PHE	E	634	-10.479	63.550	44.384	1.00	16.89	E	C
	ATOM	9478	CD2	PHE	E	634	-10.193	61.199	44.066	1.00	17.96	E	C
	ATOM	9479	CE1	PHE	E	634	-11.618	63.520	43.581	1.00	17.90	E	C
	ATOM	9480	CE2	PHE	E	634	-11.333	61.162	43.258	1.00	18.06	E	C
40	ATOM	9481	CZ	PHE	E	634	-12.044	62.323	43.017	1.00	16.27	E	C
	ATOM	9482	C	PHE	E	634	-7.371	63.380	43.422	1.00	17.65	E	C
	ATOM	9483	O	PHE	E	634	-7.492	62.942	42.275	1.00	17.23	E	O
	ATOM	9484	N	LEU	E	635	-7.386	64.679	43.694	1.00	15.42	E	N
	ATOM	9485	CA	LEU	E	635	-7.555	65.667	42.637	1.00	14.05	E	C
45	ATOM	9486	CB	LEU	E	635	-7.698	67.066	43.245	1.00	12.60	E	C
	ATOM	9487	CG	LEU	E	635	-7.853	68.236	42.270	1.00	12.58	E	C
	ATOM	9488	CD1	LEU	E	635	-9.110	68.047	41.436	1.00	10.19	E	C
	ATOM	9489	CD2	LEU	E	635	-7.904	69.544	43.034	1.00	9.11	E	C
	ATOM	9490	C	LEU	E	635	-6.402	65.654	41.635	1.00	15.28	E	C
50	ATOM	9491	O	LEU	E	635	-6.622	65.726	40.424	1.00	16.54	E	O
	ATOM	9492	N	ASP	E	636	-5.177	65.567	42.138	1.00	13.97	E	N
	ATOM	9493	CA	ASP	E	636	-3.995	65.537	41.292	1.00	14.60	E	C
	ATOM	9494	CB	ASP	E	636	-2.742	65.403	42.154	1.00	15.01	E	C
	ATOM	9495	CG	ASP	E	636	-1.475	65.658	41.376	1.00	15.39	E	C
55	ATOM	9496	OD1	ASP	E	636	-1.391	66.711	40.714	1.00	20.10	E	O
	ATOM	9497	OD2	ASP	E	636	-0.566	64.813	41.425	1.00	15.85	E	O
	ATOM	9498	C	ASP	E	636	-4.049	64.379	40.298	1.00	14.84	E	C
	ATOM	9499	O	ASP	E	636	-3.780	64.555	39.111	1.00	15.95	E	O
60	ATOM	9500	N	PHE	E	637	-4.381	63.195	40.802	1.00	14.43	E	N
	ATOM	9501	CA	PHE	E	637	-4.484	62.000	39.978	1.00	14.09	E	C
	ATOM	9502	CB	PHE	E	637	-4.760	60.772	40.859	1.00	12.19	E	C
	ATOM	9503	CG	PHE	E	637	-3.572	60.314	41.677	1.00	11.99	E	C
	ATOM	9504	CD1	PHE	E	637	-2.357	60.996	41.630	1.00	11.58	E	C
	ATOM	9505	CD2	PHE	E	637	-3.669	59.184	42.488	1.00	11.51	E	C
65	ATOM	9506	CE1	PHE	E	637	-1.257	60.553	42.382	1.00	10.32	E	C
	ATOM	9507	CE2	PHE	E	637	-2.576	58.735	43.240	1.00	9.19	E	C
	ATOM	9508	CZ	PHE	E	637	-1.373	59.419	43.186	1.00	10.34	E	C
	ATOM	9509	C	PHE	E	637	-5.616	62.172	38.964	1.00	14.80	E	C
	ATOM	9510	O	PHE	E	637	-5.483	61.797	37.800	1.00	15.07	E	O

	ATOM	9511	N	LEU	E	638	-6.726	62.749	39.411	1.00	15.14	E	N
	ATOM	9512	CA	LEU	E	638	-7.882	62.961	38.553	1.00	16.03	E	C
	ATOM	9513	CB	LEU	E	638	-9.059	63.494	39.368	1.00	17.14	E	C
	ATOM	9514	CG	LEU	E	638	-10.297	63.833	38.537	1.00	18.52	E	C
5	ATOM	9515	CD1	LEU	E	638	-10.919	62.554	38.018	1.00	18.53	E	C
	ATOM	9516	CD2	LEU	E	638	-11.293	64.596	39.376	1.00	19.41	E	C
	ATOM	9517	C	LEU	E	638	-7.588	63.932	37.415	1.00	16.73	E	C
	ATOM	9518	O	LEU	E	638	-7.963	63.692	36.268	1.00	16.31	E	O
10	ATOM	9519	N	GLN	E	639	-6.935	65.039	37.742	1.00	16.22	E	N
	ATOM	9520	CA	GLN	E	639	-6.591	66.041	36.739	1.00	15.56	E	C
	ATOM	9521	CB	GLN	E	639	-5.999	67.279	37.416	1.00	13.16	E	C
	ATOM	9522	CG	GLN	E	639	-7.038	68.112	38.147	1.00	13.66	E	C
	ATOM	9523	CD	GLN	E	639	-6.436	69.303	38.856	1.00	15.38	E	C
15	ATOM	9524	OE1	GLN	E	639	-5.247	69.316	39.171	1.00	16.65	E	O
	ATOM	9525	NE2	GLN	E	639	-7.256	70.317	39.107	1.00	15.74	E	N
	ATOM	9526	C	GLN	E	639	-5.602	65.485	35.715	1.00	15.62	E	C
	ATOM	9527	O	GLN	E	639	-5.763	65.686	34.516	1.00	15.76	E	O
	ATOM	9528	N	LYS	E	640	-4.590	64.773	36.196	1.00	15.09	E	N
20	ATOM	9529	CA	LYS	E	640	-3.576	64.197	35.329	1.00	13.93	E	C
	ATOM	9530	CB	LYS	E	640	-2.442	63.603	36.172	1.00	11.75	E	C
	ATOM	9531	CG	LYS	E	640	-1.489	64.624	36.763	1.00	9.46	E	C
	ATOM	9532	CD	LYS	E	640	-0.650	63.971	37.828	1.00	9.27	E	C
	ATOM	9533	CE	LYS	E	640	0.389	64.902	38.399	1.00	8.06	E	C
25	ATOM	9534	NZ	LYS	E	640	1.133	64.171	39.473	1.00	10.87	E	N
	ATOM	9535	C	LYS	E	640	-4.118	63.126	34.380	1.00	14.23	E	C
	ATOM	9536	O	LYS	E	640	-3.477	62.810	33.375	1.00	14.73	E	O
	ATOM	9537	N	GLY	E	641	-5.274	62.552	34.703	1.00	13.30	E	N
	ATOM	9538	CA	GLY	E	641	-5.845	61.535	33.838	1.00	13.01	E	C
30	ATOM	9539	C	GLY	E	641	-5.774	60.084	34.296	1.00	14.17	E	C
	ATOM	9540	O	GLY	E	641	-6.124	59.190	33.530	1.00	13.40	E	O
	ATOM	9541	N	LEU	E	642	-5.321	59.822	35.521	1.00	14.49	E	N
	ATOM	9542	CA	LEU	E	642	-5.268	58.438	35.994	1.00	13.02	E	C
	ATOM	9543	CB	LEU	E	642	-4.550	58.336	37.348	1.00	14.54	E	C
35	ATOM	9544	CG	LEU	E	642	-3.099	58.814	37.571	1.00	15.80	E	C
	ATOM	9545	CD1	LEU	E	642	-2.276	57.661	38.095	1.00	15.37	E	C
	ATOM	9546	CD2	LEU	E	642	-2.486	59.375	36.313	1.00	16.30	E	C
	ATOM	9547	C	LEU	E	642	-6.702	57.934	36.127	1.00	10.47	E	C
	ATOM	9548	O	LEU	E	642	-7.614	58.712	36.376	1.00	10.63	E	O
40	ATOM	9549	N	MET	E	643	-6.896	56.634	35.949	1.00	11.31	E	N
	ATOM	9550	CA	MET	E	643	-8.219	56.020	36.031	1.00	13.84	E	C
	ATOM	9551	CB	MET	E	643	-8.154	54.617	35.416	1.00	16.80	E	C
	ATOM	9552	CG	MET	E	643	-9.335	54.263	34.535	1.00	20.09	E	C
	ATOM	9553	SD	MET	E	643	-10.720	53.685	35.518	1.00	29.12	E	S
45	ATOM	9554	CE	MET	E	643	-11.641	52.734	34.262	1.00	25.38	E	C
	ATOM	9555	C	MET	E	643	-8.712	55.955	37.486	1.00	13.12	E	C
	ATOM	9556	O	MET	E	643	-8.544	54.940	38.170	1.00	12.80	E	O
	ATOM	9557	N	ILE	E	644	-9.362	57.027	37.930	1.00	13.45	E	N
	ATOM	9558	CA	ILE	E	644	-9.821	57.151	39.319	1.00	14.92	E	C
50	ATOM	9559	CB	ILE	E	644	-9.366	58.536	39.895	1.00	16.61	E	C
	ATOM	9560	CG2	ILE	E	644	-9.864	58.704	41.300	1.00	15.73	E	C
	ATOM	9561	CG1	ILE	E	644	-7.845	58.681	39.817	1.00	15.85	E	C
	ATOM	9562	CD1	ILE	E	644	-7.090	57.617	40.551	1.00	18.96	E	C
	ATOM	9563	C	ILE	E	644	-11.318	57.020	39.623	1.00	14.13	E	C
55	ATOM	9564	O	ILE	E	644	-12.156	57.544	38.897	1.00	13.24	E	O
	ATOM	9565	N	SER	E	645	-11.646	56.323	40.707	1.00	13.86	E	N
	ATOM	9566	CA	SER	E	645	-13.040	56.210	41.149	1.00	14.59	E	C
	ATOM	9567	CB	SER	E	645	-13.639	54.833	40.806	1.00	15.00	E	C
	ATOM	9568	OG	SER	E	645	-13.180	53.802	41.663	1.00	15.62	E	O
60	ATOM	9569	C	SER	E	645	-13.081	56.467	42.674	1.00	15.36	E	C
	ATOM	9570	O	SER	E	645	-12.073	56.300	43.368	1.00	14.37	E	O
	ATOM	9571	N	LEU	E	646	-14.232	56.893	43.188	1.00	14.42	E	N
	ATOM	9572	CA	LEU	E	646	-14.366	57.178	44.612	1.00	12.48	E	C
	ATOM	9573	CB	LEU	E	646	-15.178	58.462	44.824	1.00	10.33	E	C
65	ATOM	9574	CG	LEU	E	646	-14.419	59.792	44.723	1.00	7.97	E	C
	ATOM	9575	CD1	LEU	E	646	-15.406	60.929	44.808	1.00	7.00	E	C
	ATOM	9576	CD2	LEU	E	646	-13.375	59.922	45.833	1.00	8.34	E	C
	ATOM	9577	C	LEU	E	646	-15.045	56.020	45.321	1.00	14.45	E	C
	ATOM	9578	O	LEU	E	646	-15.992	55.425	44.801	1.00	13.83	E	O

	ATOM	9579	N	SER	E	647	-14.551	55.689	46.511	1.00	15.29	E	N
	ATOM	9580	CA	SER	E	647	-15.134	54.601	47.287	1.00	16.19	E	C
	ATOM	9581	CB	SER	E	647	-14.305	53.326	47.135	1.00	14.47	E	C
	ATOM	9582	OG	SER	E	647	-12.963	53.556	47.500	1.00	19.52	E	O
5	ATOM	9583	C	SER	E	647	-15.295	54.943	48.768	1.00	16.12	E	C
	ATOM	9584	O	SER	E	647	-14.683	55.877	49.283	1.00	14.96	E	O
	ATOM	9585	N	THR	E	648	-16.110	54.141	49.438	1.00	16.06	E	N
	ATOM	9586	CA	THR	E	648	-16.443	54.309	50.844	1.00	16.46	E	C
	ATOM	9587	CB	THR	E	648	-17.913	53.848	51.030	1.00	15.94	E	C
10	ATOM	9588	OG1	THR	E	648	-18.639	54.834	51.766	1.00	21.79	E	O
	ATOM	9589	CG2	THR	E	648	-17.986	52.509	51.703	1.00	13.25	E	C
	ATOM	9590	C	THR	E	648	-15.505	53.604	51.853	1.00	16.08	E	C
	ATOM	9591	O	THR	E	648	-15.151	54.181	52.888	1.00	15.58	E	O
	ATOM	9592	N	ASP	E	649	-15.098	52.373	51.538	1.00	15.77	E	N
15	ATOM	9593	CA	ASP	E	649	-14.228	51.568	52.408	1.00	17.04	E	C
	ATOM	9594	CB	ASP	E	649	-13.050	52.400	52.923	1.00	16.87	E	C
	ATOM	9595	CG	ASP	E	649	-11.861	51.549	53.315	1.00	16.95	E	C
	ATOM	9596	OD1	ASP	E	649	-11.908	50.311	53.112	1.00	17.81	E	O
	ATOM	9597	OD2	ASP	E	649	-10.868	52.120	53.825	1.00	15.94	E	O
20	ATOM	9598	C	ASP	E	649	-15.004	50.973	53.596	1.00	16.71	E	C
	ATOM	9599	O	ASP	E	649	-15.304	49.780	53.594	1.00	16.24	E	O
	ATOM	9600	N	ASP	E	650	-15.333	51.802	54.592	1.00	17.47	E	N
	ATOM	9601	CA	ASP	E	650	-16.080	51.352	55.781	1.00	18.25	E	C
	ATOM	9602	CB	ASP	E	650	-15.126	51.000	56.930	1.00	18.47	E	C
25	ATOM	9603	CG	ASP	E	650	-14.172	49.877	56.577	1.00	21.30	E	C
	ATOM	9604	OD1	ASP	E	650	-13.076	50.175	56.069	1.00	25.49	E	O
	ATOM	9605	OD2	ASP	E	650	-14.505	48.695	56.800	1.00	22.09	E	O
	ATOM	9606	C	ASP	E	650	-17.048	52.427	56.275	1.00	18.61	E	C
	ATOM	9607	O	ASP	E	650	-16.723	53.191	57.179	1.00	18.17	E	O
30	ATOM	9608	N	PRO	E	651	-18.260	52.482	55.700	1.00	18.46	E	N
	ATOM	9609	CD	PRO	E	651	-18.759	51.575	54.653	1.00	17.55	E	C
	ATOM	9610	CA	PRO	E	651	-19.262	53.476	56.090	1.00	18.31	E	C
	ATOM	9611	CB	PRO	E	651	-20.523	53.042	55.345	1.00	18.15	E	C
	ATOM	9612	CG	PRO	E	651	-20.046	52.207	54.233	1.00	17.96	E	C
35	ATOM	9613	C	PRO	E	651	-19.494	53.562	57.588	1.00	18.94	E	C
	ATOM	9614	O	PRO	E	651	-19.600	54.658	58.138	1.00	16.65	E	O
	ATOM	9615	N	MET	E	652	-19.573	52.406	58.240	1.00	19.84	E	N
	ATOM	9616	CA	MET	E	652	-19.810	52.357	59.680	1.00	21.18	E	C
	ATOM	9617	CB	MET	E	652	-19.833	50.910	60.165	1.00	21.38	E	C
40	ATOM	9618	CG	MET	E	652	-20.244	50.775	61.621	1.00	25.17	E	C
	ATOM	9619	SD	MET	E	652	-20.537	49.081	62.081	1.00	29.58	E	S
	ATOM	9620	CE	MET	E	652	-18.889	48.438	62.095	1.00	25.06	E	C
	ATOM	9621	C	MET	E	652	-18.781	53.141	60.486	1.00	21.50	E	C
	ATOM	9622	O	MET	E	652	-19.129	53.821	61.449	1.00	21.76	E	O
45	ATOM	9623	N	GLN	E	653	-17.518	53.047	60.080	1.00	22.26	E	N
	ATOM	9624	CA	GLN	E	653	-16.426	53.736	60.761	1.00	22.83	E	C
	ATOM	9625	CB	GLN	E	653	-15.105	52.990	60.522	1.00	24.02	E	C
	ATOM	9626	CG	GLN	E	653	-14.753	51.936	61.548	1.00	28.15	E	C
	ATOM	9627	CD	GLN	E	653	-15.557	50.666	61.363	1.00	33.90	E	C
50	ATOM	9628	OE1	GLN	E	653	-16.228	50.205	62.288	1.00	39.18	E	O
	ATOM	9629	NE2	GLN	E	653	-15.501	50.094	60.163	1.00	35.34	E	N
	ATOM	9630	C	GLN	E	653	-16.222	55.196	60.339	1.00	22.03	E	C
	ATOM	9631	O	GLN	E	653	-15.796	56.017	61.152	1.00	20.70	E	O
	ATOM	9632	N	PHE	E	654	-16.525	55.532	59.085	1.00	21.52	E	N
55	ATOM	9633	CA	PHE	E	654	-16.265	56.893	58.616	1.00	20.55	E	C
	ATOM	9634	CB	PHE	E	654	-15.248	56.851	57.467	1.00	20.01	E	C
	ATOM	9635	CG	PHE	E	654	-14.118	55.879	57.677	1.00	19.19	E	C
	ATOM	9636	CD1	PHE	E	654	-13.994	54.761	56.869	1.00	17.02	E	C
	ATOM	9637	CD2	PHE	E	654	-13.164	56.100	58.668	1.00	18.05	E	C
60	ATOM	9638	CE1	PHE	E	654	-12.933	53.870	57.037	1.00	18.70	E	C
	ATOM	9639	CE2	PHE	E	654	-12.101	55.218	58.846	1.00	17.91	E	C
	ATOM	9640	CZ	PHE	E	654	-11.984	54.098	58.026	1.00	18.38	E	C
	ATOM	9641	C	PHE	E	654	-17.397	57.817	58.180	1.00	20.02	E	C
	ATOM	9642	O	PHE	E	654	-17.178	59.020	58.058	1.00	21.63	E	O
65	ATOM	9643	N	HIS	E	655	-18.596	57.302	57.947	1.00	20.42	E	N
	ATOM	9644	CA	HIS	E	655	-19.651	58.185	57.459	1.00	22.26	E	C
	ATOM	9645	CB	HIS	E	655	-20.184	57.609	56.146	1.00	21.98	E	C
	ATOM	9646	CG	HIS	E	655	-19.102	57.335	55.145	1.00	21.91	E	C

	ATOM	9647	CD2	HIS	E	655	-18.210	56.319	55.055	1.00	18.79	E	C
	ATOM	9648	ND1	HIS	E	655	-18.781	58.215	54.132	1.00	22.22	E	N
	ATOM	9649	CE1	HIS	E	655	-17.737	57.754	53.467	1.00	19.71	E	C
	ATOM	9650	NE2	HIS	E	655	-17.371	56.605	54.007	1.00	17.48	E	N
5	ATOM	9651	C	HIS	E	655	-20.787	58.555	58.412	1.00	24.06	E	C
	ATOM	9652	O	HIS	E	655	-21.149	57.787	59.298	1.00	24.76	E	O
	ATOM	9653	N	PHE	E	656	-21.344	59.749	58.209	1.00	26.53	E	N
	ATOM	9654	CA	PHE	E	656	-22.412	60.277	59.055	1.00	28.52	E	C
10	ATOM	9655	CB	PHE	E	656	-22.145	61.750	59.374	1.00	28.82	E	C
	ATOM	9656	CG	PHE	E	656	-20.881	61.995	60.148	1.00	29.04	E	C
	ATOM	9657	CD1	PHE	E	656	-19.759	62.511	59.522	1.00	30.99	E	C
	ATOM	9658	CD2	PHE	E	656	-20.820	61.734	61.510	1.00	30.96	E	C
	ATOM	9659	CE1	PHE	E	656	-18.595	62.765	60.236	1.00	29.86	E	C
	ATOM	9660	CE2	PHE	E	656	-19.659	61.985	62.234	1.00	30.90	E	C
15	ATOM	9661	CZ	PHE	E	656	-18.545	62.501	61.593	1.00	31.29	E	C
	ATOM	9662	C	PHE	E	656	-23.835	60.177	58.522	1.00	30.96	E	C
	ATOM	9663	O	PHE	E	656	-24.782	60.370	59.236	1.00	33.86	E	O
	ATOM	9664	N	THR	E	657	-24.007	59.874	57.238	1.00	32.30	E	N
20	ATOM	9665	CA	THR	E	657	-25.350	59.814	56.662	1.00	32.44	E	C
	ATOM	9666	CB	THR	E	657	-25.469	60.768	55.466	1.00	32.23	E	C
	ATOM	9667	OG1	THR	E	657	-25.242	60.034	54.256	1.00	33.84	E	O
	ATOM	9668	CG2	THR	E	657	-24.441	61.892	55.571	1.00	29.66	E	C
	ATOM	9669	C	THR	E	657	-25.799	58.435	56.200	1.00	34.27	E	C
	ATOM	9670	O	THR	E	657	-25.040	57.467	56.276	1.00	35.83	E	O
25	ATOM	9671	N	LYS	E	658	-27.040	58.359	55.713	1.00	35.58	E	N
	ATOM	9672	CA	LYS	E	658	-27.614	57.102	55.228	1.00	37.57	E	C
	ATOM	9673	CB	LYS	E	658	-29.148	57.174	55.213	1.00	40.98	E	C
	ATOM	9674	CG	LYS	E	658	-29.801	57.199	56.595	1.00	45.09	E	C
	ATOM	9675	CD	LYS	E	658	-30.280	55.806	57.027	1.00	47.86	E	C
30	ATOM	9676	CE	LYS	E	658	-30.149	55.600	58.544	1.00	47.30	E	C
	ATOM	9677	NZ	LYS	E	658	-29.062	54.650	58.903	1.00	44.90	E	N
	ATOM	9678	C	LYS	E	658	-27.119	56.791	53.821	1.00	36.53	E	C
	ATOM	9679	O	LYS	E	658	-27.318	55.689	53.306	1.00	36.31	E	O
	ATOM	9680	N	GLU	E	659	-26.479	57.773	53.198	1.00	34.85	E	N
35	ATOM	9681	CA	GLU	E	659	-25.956	57.595	51.853	1.00	33.74	E	C
	ATOM	9682	CB	GLU	E	659	-26.738	58.472	50.878	1.00	36.10	E	C
	ATOM	9683	CG	GLU	E	659	-28.228	58.149	50.854	1.00	40.89	E	C
	ATOM	9684	CD	GLU	E	659	-28.957	58.828	49.712	1.00	43.79	E	C
	ATOM	9685	OE1	GLU	E	659	-28.887	58.309	48.575	1.00	45.21	E	O
40	ATOM	9686	OE2	GLU	E	659	-29.599	59.877	49.950	1.00	44.82	E	O
	ATOM	9687	C	GLU	E	659	-24.474	57.948	51.828	1.00	31.22	E	C
	ATOM	9688	O	GLU	E	659	-24.079	59.004	51.325	1.00	30.68	E	O
	ATOM	9689	N	PRO	E	660	-23.633	57.060	52.385	1.00	29.08	E	N
	ATOM	9690	CD	PRO	E	660	-24.063	55.803	53.027	1.00	27.97	E	C
45	ATOM	9691	CA	PRO	E	660	-22.177	57.244	52.451	1.00	26.65	E	C
	ATOM	9692	CB	PRO	E	660	-21.672	55.976	53.150	1.00	26.92	E	C
	ATOM	9693	CG	PRO	E	660	-22.802	55.000	53.067	1.00	29.03	E	C
	ATOM	9694	C	PRO	E	660	-21.460	57.498	51.123	1.00	22.55	E	C
	ATOM	9695	O	PRO	E	660	-20.506	58.277	51.082	1.00	22.27	E	O
50	ATOM	9696	N	LEU	E	661	-21.898	56.846	50.049	1.00	20.96	E	N
	ATOM	9697	CA	LEU	E	661	-21.268	57.043	48.735	1.00	18.45	E	C
	ATOM	9698	CB	LEU	E	661	-21.821	56.050	47.707	1.00	17.68	E	C
	ATOM	9699	CG	LEU	E	661	-20.881	55.393	46.674	1.00	18.66	E	C
	ATOM	9700	CD1	LEU	E	661	-21.505	55.471	45.292	1.00	15.61	E	C
55	ATOM	9701	CD2	LEU	E	661	-19.513	56.046	46.667	1.00	14.61	E	C
	ATOM	9702	C	LEU	E	661	-21.504	58.469	48.243	1.00	17.61	E	C
	ATOM	9703	O	LEU	E	661	-20.580	59.119	47.757	1.00	16.91	E	O
	ATOM	9704	N	MET	E	662	-22.741	58.947	48.372	1.00	16.79	E	N
	ATOM	9705	CA	MET	E	662	-23.089	60.308	47.961	1.00	19.44	E	C
60	ATOM	9706	CB	MET	E	662	-24.592	60.550	48.112	1.00	21.31	E	C
	ATOM	9707	CG	MET	E	662	-25.452	59.795	47.098	1.00	28.27	E	C
	ATOM	9708	SD	MET	E	662	-25.023	60.135	45.348	1.00	35.34	E	S
	ATOM	9709	CE	MET	E	662	-25.155	61.947	45.313	1.00	31.76	E	C
	ATOM	9710	C	MET	E	662	-22.325	61.294	48.839	1.00	19.52	E	C
65	ATOM	9711	O	MET	E	662	-21.962	62.391	48.400	1.00	19.32	E	O
	ATOM	9712	N	GLU	E	663	-22.088	60.888	50.084	1.00	17.05	E	N
	ATOM	9713	CA	GLU	E	663	-21.356	61.701	51.044	1.00	15.98	E	C
	ATOM	9714	CB	GLU	E	663	-21.424	61.047	52.428	1.00	17.97	E	C

	ATOM	9715	CG	GLU	E	663	-21.028	61.940	53.585	1.00	19.35	E	C
	ATOM	9716	CD	GLU	E	663	-21.110	61.213	54.919	1.00	21.27	E	C
	ATOM	9717	OE1	GLU	E	663	-21.993	60.330	55.048	1.00	17.97	E	O
5	ATOM	9718	OE2	GLU	E	663	-20.294	61.526	55.822	1.00	19.31	E	O
	ATOM	9719	C	GLU	E	663	-19.901	61.841	50.601	1.00	14.91	E	C
	ATOM	9720	O	GLU	E	663	-19.353	62.942	50.622	1.00	13.60	E	O
	ATOM	9721	N	GLU	E	664	-19.277	60.726	50.206	1.00	15.60	E	N
	ATOM	9722	CA	GLU	E	664	-17.888	60.753	49.742	1.00	16.01	E	C
10	ATOM	9723	CB	GLU	E	664	-17.397	59.350	49.375	1.00	17.44	E	C
	ATOM	9724	CG	GLU	E	664	-16.912	58.525	50.562	1.00	22.67	E	C
	ATOM	9725	CD	GLU	E	664	-15.414	58.629	50.824	1.00	20.41	E	C
	ATOM	9726	OE1	GLU	E	664	-14.747	59.538	50.276	1.00	19.17	E	O
	ATOM	9727	OE2	GLU	E	664	-14.905	57.787	51.598	1.00	24.26	E	O
15	ATOM	9728	C	GLU	E	664	-17.752	61.652	48.520	1.00	16.10	E	C
	ATOM	9729	O	GLU	E	664	-16.795	62.419	48.408	1.00	17.85	E	O
	ATOM	9730	N	TYR	E	665	-18.708	61.540	47.601	1.00	14.24	E	N
	ATOM	9731	CA	TYR	E	665	-18.707	62.348	46.388	1.00	15.24	E	C
	ATOM	9732	CB	TYR	E	665	-19.830	61.904	45.443	1.00	15.54	E	C
20	ATOM	9733	CG	TYR	E	665	-19.425	60.845	44.437	1.00	16.81	E	C
	ATOM	9734	CD1	TYR	E	665	-19.443	59.494	44.773	1.00	16.22	E	C
	ATOM	9735	CE1	TYR	E	665	-19.087	58.513	43.843	1.00	17.02	E	C
	ATOM	9736	CD2	TYR	E	665	-19.037	61.194	43.136	1.00	17.50	E	C
	ATOM	9737	CE2	TYR	E	665	-18.679	60.216	42.194	1.00	15.94	E	C
25	ATOM	9738	CZ	TYR	E	665	-18.706	58.882	42.560	1.00	17.24	E	C
	ATOM	9739	OH	TYR	E	665	-18.341	57.911	41.661	1.00	18.47	E	O
	ATOM	9740	C	TYR	E	665	-18.903	63.816	46.723	1.00	14.64	E	C
	ATOM	9741	O	TYR	E	665	-18.223	64.675	46.166	1.00	17.33	E	O
	ATOM	9742	N	ALA	E	666	-19.831	64.101	47.636	1.00	13.60	E	N
30	ATOM	9743	CA	ALA	E	666	-20.126	65.478	48.048	1.00	14.04	E	C
	ATOM	9744	CB	ALA	E	666	-21.317	65.493	48.996	1.00	13.84	E	C
	ATOM	9745	C	ALA	E	666	-18.962	66.234	48.683	1.00	13.29	E	C
	ATOM	9746	O	ALA	E	666	-18.680	67.366	48.307	1.00	14.43	E	O
	ATOM	9747	N	ILE	E	667	-18.280	65.630	49.648	1.00	14.70	E	N
35	ATOM	9748	CA	ILE	E	667	-17.178	66.346	50.274	1.00	15.42	E	C
	ATOM	9749	CB	ILE	E	667	-16.682	65.647	51.578	1.00	15.51	E	C
	ATOM	9750	CG2	ILE	E	667	-16.268	64.215	51.293	1.00	17.47	E	C
	ATOM	9751	CG1	ILE	E	667	-15.500	66.419	52.165	1.00	14.94	E	C
	ATOM	9752	CD1	ILE	E	667	-14.909	65.783	53.393	1.00	18.16	E	C
40	ATOM	9753	C	ILE	E	667	-16.022	66.499	49.300	1.00	15.32	E	C
	ATOM	9754	O	ILE	E	667	-15.314	67.508	49.323	1.00	15.34	E	O
	ATOM	9755	N	ALA	E	668	-15.828	65.501	48.441	1.00	15.23	E	N
	ATOM	9756	CA	ALA	E	668	-14.747	65.567	47.463	1.00	14.64	E	C
	ATOM	9757	CB	ALA	E	668	-14.675	64.261	46.656	1.00	14.07	E	C
45	ATOM	9758	C	ALA	E	668	-14.996	66.755	46.538	1.00	13.02	E	C
	ATOM	9759	O	ALA	E	668	-14.093	67.537	46.253	1.00	14.17	E	O
	ATOM	9760	N	ALA	E	669	-16.238	66.890	46.084	1.00	13.34	E	N
	ATOM	9761	CA	ALA	E	669	-16.624	67.985	45.197	1.00	14.59	E	C
	ATOM	9762	CB	ALA	E	669	-18.058	67.796	44.724	1.00	12.11	E	C
50	ATOM	9763	C	ALA	E	669	-16.482	69.330	45.900	1.00	15.77	E	C
	ATOM	9764	O	ALA	E	669	-16.039	70.306	45.297	1.00	15.38	E	O
	ATOM	9765	N	GLN	E	670	-16.854	69.376	47.176	1.00	16.57	E	N
	ATOM	9766	CA	GLN	E	670	-16.758	70.608	47.952	1.00	17.19	E	C
	ATOM	9767	CB	GLN	E	670	-17.424	70.439	49.325	1.00	19.11	E	C
55	ATOM	9768	CG	GLN	E	670	-18.839	69.898	49.280	1.00	21.72	E	C
	ATOM	9769	CD	GLN	E	670	-19.875	70.991	49.143	1.00	25.29	E	C
	ATOM	9770	OE1	GLN	E	670	-19.585	72.082	48.646	1.00	25.90	E	O
	ATOM	9771	NE2	GLN	E	670	-21.097	70.706	49.590	1.00	26.36	E	N
	ATOM	9772	C	GLN	E	670	-15.323	71.081	48.156	1.00	16.28	E	C
60	ATOM	9773	O	GLN	E	670	-14.976	72.190	47.751	1.00	17.79	E	O
	ATOM	9774	N	VAL	E	671	-14.481	70.257	48.775	1.00	16.20	E	N
	ATOM	9775	CA	VAL	E	671	-13.111	70.694	49.015	1.00	17.58	E	C
	ATOM	9776	CB	VAL	E	671	-12.460	69.939	50.243	1.00	17.81	E	C
	ATOM	9777	CG1	VAL	E	671	-13.502	69.135	50.987	1.00	16.65	E	C
65	ATOM	9778	CG2	VAL	E	671	-11.310	69.070	49.799	1.00	17.66	E	C
	ATOM	9779	C	VAL	E	671	-12.187	70.651	47.791	1.00	17.13	E	C
	ATOM	9780	O	VAL	E	671	-11.283	71.476	47.671	1.00	17.53	E	O
	ATOM	9781	N	PHE	E	672	-12.405	69.718	46.873	1.00	17.72	E	N
	ATOM	9782	CA	PHE	E	672	-11.545	69.662	45.694	1.00	18.54	E	C

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	ATOM	9783	CB	PHE	E	672	-11.342	68.219	45.252	1.00	17.87	E	C
	ATOM	9784	CG	PHE	E	672	-10.467	67.440	46.183	1.00	20.08	E	C
	ATOM	9785	CD1	PHE	E	672	-9.190	67.894	46.494	1.00	18.94	E	C
5	ATOM	9786	CD2	PHE	E	672	-10.930	66.277	46.792	1.00	20.80	E	C
	ATOM	9787	CE1	PHE	E	672	-8.390	67.205	47.398	1.00	20.83	E	C
	ATOM	9788	CE2	PHE	E	672	-10.132	65.581	47.700	1.00	19.21	E	C
	ATOM	9789	CZ	PHE	E	672	-8.864	66.046	48.003	1.00	19.91	E	C
	ATOM	9790	C	PHE	E	672	-12.089	70.503	44.551	1.00	18.57	E	C
10	ATOM	9791	O	PHE	E	672	-11.447	70.635	43.516	1.00	17.48	E	O
	ATOM	9792	N	LYS	E	673	-13.269	71.082	44.766	1.00	19.75	E	N
	ATOM	9793	CA	LYS	E	673	-13.934	71.951	43.794	1.00	19.87	E	C
	ATOM	9794	CB	LYS	E	673	-13.163	73.272	43.657	1.00	22.69	E	C
	ATOM	9795	CG	LYS	E	673	-13.727	74.400	44.520	1.00	25.17	E	C
	ATOM	9796	CD	LYS	E	673	-12.641	75.295	45.100	1.00	28.59	E	C
15	ATOM	9797	CE	LYS	E	673	-11.362	74.510	45.421	1.00	33.74	E	C
	ATOM	9798	NZ	LYS	E	673	-10.306	75.328	46.121	1.00	34.51	E	N
	ATOM	9799	C	LYS	E	673	-14.121	71.309	42.422	1.00	19.80	E	C
	ATOM	9800	O	LYS	E	673	-13.711	71.860	41.396	1.00	18.40	E	O
20	ATOM	9801	N	LEU	E	674	-14.758	70.146	42.419	1.00	17.43	E	N
	ATOM	9802	CA	LEU	E	674	-15.029	69.392	41.197	1.00	18.02	E	C
	ATOM	9803	CB	LEU	E	674	-15.298	67.922	41.544	1.00	17.45	E	C
	ATOM	9804	CG	LEU	E	674	-14.157	66.901	41.616	1.00	16.29	E	C
	ATOM	9805	CD1	LEU	E	674	-12.825	67.577	41.862	1.00	14.68	E	C
	ATOM	9806	CD2	LEU	E	674	-14.482	65.908	42.723	1.00	16.40	E	C
25	ATOM	9807	C	LEU	E	674	-16.248	69.937	40.452	1.00	17.17	E	C
	ATOM	9808	O	LEU	E	674	-17.243	70.306	41.070	1.00	15.85	E	O
	ATOM	9809	N	SER	E	675	-16.174	69.980	39.123	1.00	16.97	E	N
	ATOM	9810	CA	SER	E	675	-17.302	70.437	38.307	1.00	15.83	E	C
	ATOM	9811	CB	SER	E	675	-16.833	70.814	36.893	1.00	17.79	E	C
30	ATOM	9812	OG	SER	E	675	-16.331	69.681	36.193	1.00	17.96	E	O
	ATOM	9813	C	SER	E	675	-18.225	69.230	38.232	1.00	15.24	E	C
	ATOM	9814	O	SER	E	675	-17.827	68.143	38.635	1.00	14.51	E	O
	ATOM	9815	N	THR	E	676	-19.448	69.390	37.734	1.00	16.49	E	N
35	ATOM	9816	CA	THR	E	676	-20.329	68.228	37.653	1.00	17.32	E	C
	ATOM	9817	CB	THR	E	676	-21.821	68.619	37.453	1.00	18.82	E	C
	ATOM	9818	OG1	THR	E	676	-22.303	68.075	36.221	1.00	24.47	E	O
	ATOM	9819	CG2	THR	E	676	-21.998	70.112	37.462	1.00	19.93	E	C
	ATOM	9820	C	THR	E	676	-19.857	67.281	36.539	1.00	16.45	E	C
	ATOM	9821	O	THR	E	676	-20.208	66.103	36.526	1.00	18.11	E	O
40	ATOM	9822	N	CYS	E	677	-19.041	67.788	35.620	1.00	14.27	E	N
	ATOM	9823	CA	CYS	E	677	-18.501	66.949	34.556	1.00	14.15	E	C
	ATOM	9824	CB	CYS	E	677	-17.908	67.799	33.419	1.00	14.67	E	C
	ATOM	9825	SG	CYS	E	677	-17.208	66.820	32.051	1.00	16.06	E	S
	ATOM	9826	C	CYS	E	677	-17.404	66.102	35.188	1.00	14.75	E	C
45	ATOM	9827	O	CYS	E	677	-17.217	64.939	34.825	1.00	15.69	E	O
	ATOM	9828	N	ASP	E	678	-16.677	66.698	36.136	1.00	14.75	E	N
	ATOM	9829	CA	ASP	E	678	-15.608	66.004	36.858	1.00	13.42	E	C
	ATOM	9830	CB	ASP	E	678	-14.927	66.951	37.851	1.00	15.43	E	C
	ATOM	9831	CG	ASP	E	678	-14.024	67.970	37.181	1.00	17.69	E	C
50	ATOM	9832	OD1	ASP	E	678	-13.513	67.691	36.077	1.00	19.63	E	O
	ATOM	9833	OD2	ASP	E	678	-13.815	69.054	37.769	1.00	18.18	E	O
	ATOM	9834	C	ASP	E	678	-16.237	64.856	37.647	1.00	14.19	E	C
	ATOM	9835	O	ASP	E	678	-15.717	63.745	37.677	1.00	14.49	E	O
	ATOM	9836	N	MET	E	679	-17.366	65.147	38.286	1.00	14.20	E	N
55	ATOM	9837	CA	MET	E	679	-18.085	64.169	39.090	1.00	16.03	E	C
	ATOM	9838	CB	MET	E	679	-19.220	64.856	39.848	1.00	16.08	E	C
	ATOM	9839	CG	MET	E	679	-18.756	65.842	40.898	1.00	18.89	E	C
	ATOM	9840	SD	MET	E	679	-20.167	66.475	41.837	1.00	28.17	E	S
	ATOM	9841	CE	MET	E	679	-20.222	68.158	41.264	1.00	24.74	E	C
60	ATOM	9842	C	MET	E	679	-18.664	63.033	38.258	1.00	16.77	E	C
	ATOM	9843	O	MET	E	679	-18.636	61.877	38.672	1.00	17.71	E	O
	ATOM	9844	N	CYS	E	680	-19.205	63.361	37.091	1.00	16.78	E	N
	ATOM	9845	CA	CYS	E	680	-19.792	62.339	36.237	1.00	15.76	E	C
	ATOM	9846	CB	CYS	E	680	-20.687	62.992	35.188	1.00	16.70	E	C
65	ATOM	9847	SG	CYS	E	680	-22.178	63.737	35.894	1.00	23.02	E	S
	ATOM	9848	C	CYS	E	680	-18.728	61.467	35.580	1.00	14.63	E	C
	ATOM	9849	O	CYS	E	680	-19.001	60.324	35.201	1.00	16.44	E	O
	ATOM	9850	N	GLU	E	681	-17.516	61.999	35.450	1.00	14.01	E	N

	ATOM	9851	CA	GLU	E	681	-16.426	61.228	34.862	1.00	12.57	E	C
	ATOM	9852	CB	GLU	E	681	-15.245	62.138	34.482	1.00	11.30	E	C
	ATOM	9853	CG	GLU	E	681	-14.201	61.425	33.617	1.00	13.89	E	C
	ATOM	9854	CD	GLU	E	681	-12.961	62.263	33.308	1.00	14.84	E	C
5	ATOM	9855	OE1	GLU	E	681	-12.882	63.429	33.743	1.00	13.34	E	O
	ATOM	9856	OE2	GLU	E	681	-12.054	61.740	32.621	1.00	18.24	E	O
	ATOM	9857	C	GLU	E	681	-15.977	60.177	35.886	1.00	12.97	E	C
	ATOM	9858	O	GLU	E	681	-15.676	59.037	35.536	1.00	14.45	E	O
	ATOM	9859	N	VAL	E	682	-15.934	60.565	37.156	1.00	12.23	E	N
10	ATOM	9860	CA	VAL	E	682	-15.531	59.641	38.212	1.00	11.93	E	C
	ATOM	9861	CB	VAL	E	682	-15.429	60.358	39.583	1.00	11.18	E	C
	ATOM	9862	CG1	VAL	E	682	-15.361	59.322	40.712	1.00	9.59	E	C
	ATOM	9863	CG2	VAL	E	682	-14.193	61.259	39.603	1.00	8.14	E	C
	ATOM	9864	C	VAL	E	682	-16.558	58.509	38.300	1.00	11.59	E	C
15	ATOM	9865	O	VAL	E	682	-16.199	57.336	38.416	1.00	14.08	E	O
	ATOM	9866	N	ALA	E	683	-17.834	58.873	38.231	1.00	9.96	E	N
	ATOM	9867	CA	ALA	E	683	-18.924	57.907	38.285	1.00	11.15	E	C
	ATOM	9868	CB	ALA	E	683	-20.253	58.632	38.190	1.00	10.80	E	C
	ATOM	9869	C	ALA	E	683	-18.814	56.882	37.164	1.00	11.65	E	C
20	ATOM	9870	O	ALA	E	683	-18.987	55.687	37.381	1.00	12.68	E	O
	ATOM	9871	N	ARG	E	684	-18.534	57.363	35.959	1.00	14.02	E	N
	ATOM	9872	CA	ARG	E	684	-18.400	56.491	34.797	1.00	14.79	E	C
	ATOM	9873	CB	ARG	E	684	-18.155	57.328	33.534	1.00	15.79	E	C
	ATOM	9874	CG	ARG	E	684	-17.908	56.520	32.275	1.00	12.93	E	C
25	ATOM	9875	CD	ARG	E	684	-17.962	57.416	31.041	1.00	15.86	E	C
	ATOM	9876	NE	ARG	E	684	-17.995	56.634	29.812	1.00	17.69	E	N
	ATOM	9877	CZ	ARG	E	684	-16.918	56.139	29.214	1.00	17.28	E	C
	ATOM	9878	NH1	ARG	E	684	-15.717	56.350	29.738	1.00	16.00	E	N
	ATOM	9879	NH2	ARG	E	684	-17.045	55.419	28.105	1.00	17.35	E	N
30	ATOM	9880	C	ARG	E	684	-17.237	55.545	35.028	1.00	13.55	E	C
	ATOM	9881	O	ARG	E	684	-17.328	54.351	34.757	1.00	15.79	E	O
	ATOM	9882	N	ASN	E	685	-16.134	56.086	35.526	1.00	14.80	E	N
	ATOM	9883	CA	ASN	E	685	-14.956	55.273	35.808	1.00	14.74	E	C
	ATOM	9884	CB	ASN	E	685	-13.861	56.130	36.446	1.00	14.74	E	C
35	ATOM	9885	CG	ASN	E	685	-13.154	57.014	35.443	1.00	16.55	E	C
	ATOM	9886	OD1	ASN	E	685	-13.469	57.000	34.254	1.00	16.76	E	O
	ATOM	9887	ND2	ASN	E	685	-12.189	57.788	35.918	1.00	15.84	E	N
	ATOM	9888	C	ASN	E	685	-15.304	54.134	36.765	1.00	15.02	E	C
	ATOM	9889	O	ASN	E	685	-14.837	53.007	36.596	1.00	15.08	E	O
40	ATOM	9890	N	SER	E	686	-16.124	54.430	37.772	1.00	14.37	E	N
	ATOM	9891	CA	SER	E	686	-16.495	53.418	38.757	1.00	14.13	E	C
	ATOM	9892	CB	SER	E	686	-17.273	54.060	39.920	1.00	11.58	E	C
	ATOM	9893	OG	SER	E	686	-18.647	54.259	39.637	1.00	11.10	E	O
	ATOM	9894	C	SER	E	686	-17.281	52.275	38.129	1.00	14.14	E	C
45	ATOM	9895	O	SER	E	686	-17.085	51.115	38.491	1.00	15.61	E	O
	ATOM	9896	N	VAL	E	687	-18.156	52.591	37.176	1.00	14.64	E	N
	ATOM	9897	CA	VAL	E	687	-18.935	51.554	36.504	1.00	13.38	E	C
	ATOM	9898	CB	VAL	E	687	-20.047	52.151	35.627	1.00	13.66	E	C
	ATOM	9899	CG1	VAL	E	687	-20.834	51.026	34.959	1.00	14.35	E	C
50	ATOM	9900	CG2	VAL	E	687	-20.979	53.014	36.476	1.00	11.30	E	C
	ATOM	9901	C	VAL	E	687	-18.024	50.700	35.628	1.00	13.19	E	C
	ATOM	9902	O	VAL	E	687	-18.151	49.476	35.591	1.00	13.63	E	O
	ATOM	9903	N	LEU	E	688	-17.102	51.349	34.927	1.00	12.80	E	N
	ATOM	9904	CA	LEU	E	688	-16.162	50.637	34.064	1.00	12.77	E	C
55	ATOM	9905	CB	LEU	E	688	-15.276	51.638	33.297	1.00	10.68	E	C
	ATOM	9906	CG	LEU	E	688	-15.918	52.476	32.179	1.00	12.03	E	C
	ATOM	9907	CD1	LEU	E	688	-14.946	53.545	31.680	1.00	6.12	E	C
	ATOM	9908	CD2	LEU	E	688	-16.327	51.565	31.043	1.00	10.10	E	C
	ATOM	9909	C	LEU	E	688	-15.266	49.699	34.883	1.00	14.03	E	C
60	ATOM	9910	O	LEU	E	688	-14.961	48.580	34.462	1.00	14.20	E	O
	ATOM	9911	N	GLN	E	689	-14.848	50.168	36.055	1.00	15.10	E	N
	ATOM	9912	CA	GLN	E	689	-13.970	49.410	36.939	1.00	14.15	E	C
	ATOM	9913	CB	GLN	E	689	-13.402	50.347	38.004	1.00	13.50	E	C
	ATOM	9914	CG	GLN	E	689	-12.649	49.635	39.109	1.00	11.88	E	C
65	ATOM	9915	CD	GLN	E	689	-11.936	50.594	40.037	1.00	12.38	E	C
	ATOM	9916	OE1	GLN	E	689	-11.071	50.192	40.809	1.00	14.00	E	O
	ATOM	9917	NE2	GLN	E	689	-12.298	51.868	39.971	1.00	12.87	E	N
	ATOM	9918	C	GLN	E	689	-14.603	48.198	37.638	1.00	15.52	E	C

	ATOM	9919	O	GLN	E	689	-13.970	47.144	37.762	1.00	15.48	E	O
	ATOM	9920	N	CYS	E	690	-15.849	48.343	38.079	1.00	16.31	E	N
	ATOM	9921	CA	CYS	E	690	-16.533	47.283	38.819	1.00	17.59	E	C
	ATOM	9922	CB	CYS	E	690	-17.852	47.815	39.377	1.00	16.89	E	C
5	ATOM	9923	SG	CYS	E	690	-19.156	47.978	38.165	1.00	18.26	E	S
	ATOM	9924	C	CYS	E	690	-16.779	45.963	38.100	1.00	18.42	E	C
	ATOM	9925	O	CYS	E	690	-16.483	45.819	36.915	1.00	20.31	E	O
	ATOM	9926	N	GLY	E	691	-17.323	45.001	38.842	1.00	18.54	E	N
	ATOM	9927	CA	GLY	E	691	-17.597	43.684	38.301	1.00	17.38	E	C
10	ATOM	9928	C	GLY	E	691	-19.036	43.426	37.882	1.00	18.87	E	C
	ATOM	9929	O	GLY	E	691	-19.439	42.269	37.724	1.00	20.69	E	O
	ATOM	9930	N	ILE	E	692	-19.815	44.488	37.701	1.00	17.36	E	N
	ATOM	9931	CA	ILE	E	692	-21.200	44.353	37.274	1.00	17.16	E	C
	ATOM	9932	CB	ILE	E	692	-21.868	45.740	37.195	1.00	16.98	E	C
15	ATOM	9933	CG2	ILE	E	692	-23.144	45.677	36.366	1.00	16.95	E	C
	ATOM	9934	CG1	ILE	E	692	-22.181	46.231	38.612	1.00	17.39	E	C
	ATOM	9935	CD1	ILE	E	692	-22.941	47.557	38.669	1.00	14.76	E	C
	ATOM	9936	C	ILE	E	692	-21.227	43.665	35.899	1.00	17.99	E	C
	ATOM	9937	O	ILE	E	692	-20.252	43.740	35.153	1.00	16.82	E	O
20	ATOM	9938	N	SER	E	693	-22.331	42.994	35.571	1.00	19.22	E	N
	ATOM	9939	CA	SER	E	693	-22.453	42.282	34.292	1.00	20.63	E	C
	ATOM	9940	CB	SER	E	693	-23.756	41.473	34.255	1.00	19.74	E	C
	ATOM	9941	OG	SER	E	693	-24.879	42.309	34.021	1.00	23.53	E	O
	ATOM	9942	C	SER	E	693	-22.373	43.180	33.050	1.00	21.52	E	C
25	ATOM	9943	O	SER	E	693	-22.661	44.381	33.104	1.00	21.09	E	O
	ATOM	9944	N	HIS	E	694	-21.972	42.580	31.932	1.00	23.53	E	N
	ATOM	9945	CA	HIS	E	694	-21.843	43.302	30.669	1.00	25.76	E	C
	ATOM	9946	CB	HIS	E	694	-21.301	42.384	29.574	1.00	26.59	E	C
	ATOM	9947	CG	HIS	E	694	-21.226	43.041	28.231	1.00	27.75	E	C
30	ATOM	9948	CD2	HIS	E	694	-20.271	43.822	27.674	1.00	27.76	E	C
	ATOM	9949	ND1	HIS	E	694	-22.246	42.965	27.307	1.00	29.74	E	N
	ATOM	9950	CE1	HIS	E	694	-21.923	43.673	26.239	1.00	28.79	E	C
	ATOM	9951	NE2	HIS	E	694	-20.730	44.203	26.437	1.00	28.81	E	N
	ATOM	9952	C	HIS	E	694	-23.165	43.889	30.203	1.00	26.49	E	C
35	ATOM	9953	O	HIS	E	694	-23.224	45.039	29.776	1.00	26.64	E	O
	ATOM	9954	N	GLU	E	695	-24.221	43.089	30.285	1.00	28.72	E	N
	ATOM	9955	CA	GLU	E	695	-25.546	43.527	29.871	1.00	32.29	E	C
	ATOM	9956	CB	GLU	E	695	-26.561	42.383	30.036	1.00	38.02	E	C
	ATOM	9957	CG	GLU	E	695	-27.999	42.735	29.620	1.00	47.07	E	C
40	ATOM	9958	CD	GLU	E	695	-29.057	42.299	30.646	1.00	53.40	E	C
	ATOM	9959	OE1	GLU	E	695	-29.477	41.115	30.614	1.00	55.56	E	O
	ATOM	9960	OE2	GLU	E	695	-29.470	43.143	31.482	1.00	55.61	E	O
	ATOM	9961	C	GLU	E	695	-25.990	44.737	30.684	1.00	30.46	E	C
	ATOM	9962	O	GLU	E	695	-26.588	45.670	30.148	1.00	30.45	E	O
45	ATOM	9963	N	GLU	E	696	-25.692	44.724	31.976	1.00	28.52	E	N
	ATOM	9964	CA	GLU	E	696	-26.086	45.828	32.841	1.00	28.08	E	C
	ATOM	9965	CB	GLU	E	696	-25.962	45.416	34.300	1.00	30.10	E	C
	ATOM	9966	CG	GLU	E	696	-27.257	44.923	34.879	1.00	35.89	E	C
	ATOM	9967	CD	GLU	E	696	-27.044	44.189	36.180	1.00	40.50	E	C
50	ATOM	9968	OE1	GLU	E	696	-27.474	44.716	37.242	1.00	42.66	E	O
	ATOM	9969	OE2	GLU	E	696	-26.441	43.090	36.135	1.00	41.39	E	O
	ATOM	9970	C	GLU	E	696	-25.261	47.079	32.590	1.00	24.93	E	C
	ATOM	9971	O	GLU	E	696	-25.793	48.188	32.585	1.00	21.70	E	O
	ATOM	9972	N	LYS	E	697	-23.960	46.897	32.386	1.00	23.57	E	N
55	ATOM	9973	CA	LYS	E	697	-23.072	48.024	32.124	1.00	23.64	E	C
	ATOM	9974	CB	LYS	E	697	-21.633	47.544	31.997	1.00	21.00	E	C
	ATOM	9975	CG	LYS	E	697	-20.973	47.207	33.314	1.00	22.04	E	C
	ATOM	9976	CD	LYS	E	697	-19.462	47.273	33.185	1.00	18.49	E	C
	ATOM	9977	CE	LYS	E	697	-18.784	46.644	34.383	1.00	19.17	E	C
60	ATOM	9978	NZ	LYS	E	697	-17.313	46.809	34.307	1.00	19.75	E	N
	ATOM	9979	C	LYS	E	697	-23.474	48.755	30.843	1.00	24.12	E	C
	ATOM	9980	O	LYS	E	697	-23.469	49.986	30.790	1.00	25.17	E	O
	ATOM	9981	N	ALA	E	698	-23.818	47.988	29.812	1.00	24.79	E	N
	ATOM	9982	CA	ALA	E	698	-24.223	48.558	28.530	1.00	25.10	E	C
65	ATOM	9983	CB	ALA	E	698	-24.484	47.445	27.525	1.00	25.03	E	C
	ATOM	9984	C	ALA	E	698	-25.480	49.391	28.722	1.00	25.34	E	C
	ATOM	9985	O	ALA	E	698	-25.693	50.393	28.039	1.00	23.99	E	O
	ATOM	9986	N	LYS	E	699	-26.306	48.966	29.672	1.00	25.83	E	N

	ATOM	9987	CA	LYS	E	699	-27.552	49.652	29.982	1.00	25.78	E	C
	ATOM	9988	CB	LYS	E	699	-28.466	48.704	30.768	1.00	28.17	E	C
	ATOM	9989	CG	LYS	E	699	-29.502	49.366	31.665	1.00	31.91	E	C
	ATOM	9990	CD	LYS	E	699	-30.232	48.311	32.504	1.00	35.84	E	C
5	ATOM	9991	CE	LYS	E	699	-31.021	48.928	33.652	1.00	35.83	E	C
	ATOM	9992	NZ	LYS	E	699	-31.873	50.062	33.199	1.00	37.81	E	N
	ATOM	9993	C	LYS	E	699	-27.291	50.936	30.769	1.00	24.31	E	C
	ATOM	9994	O	LYS	E	699	-28.058	51.895	30.674	1.00	24.22	E	O
	ATOM	9995	N	PHE	E	700	-26.199	50.955	31.530	1.00	23.56	E	N
10	ATOM	9996	CA	PHE	E	700	-25.849	52.122	32.339	1.00	21.74	E	C
	ATOM	9997	CB	PHE	E	700	-25.051	51.705	33.585	1.00	20.20	E	C
	ATOM	9998	CG	PHE	E	700	-25.799	50.802	34.529	1.00	20.14	E	C
	ATOM	9999	CD1	PHE	E	700	-27.191	50.760	34.535	1.00	18.00	E	C
	ATOM	10000	CD2	PHE	E	700	-25.099	49.969	35.406	1.00	20.75	E	C
15	ATOM	10001	CE1	PHE	E	700	-27.875	49.901	35.393	1.00	16.42	E	C
	ATOM	10002	CE2	PHE	E	700	-25.777	49.103	36.272	1.00	18.12	E	C
	ATOM	10003	CZ	PHE	E	700	-27.167	49.071	36.261	1.00	16.51	E	C
	ATOM	10004	C	PHE	E	700	-25.014	53.134	31.575	1.00	21.67	E	C
	ATOM	10005	O	PHE	E	700	-25.213	54.340	31.711	1.00	21.52	E	O
20	ATOM	10006	N	LEU	E	701	-24.075	52.633	30.777	1.00	22.49	E	N
	ATOM	10007	CA	LEU	E	701	-23.152	53.478	30.021	1.00	23.48	E	C
	ATOM	10008	CB	LEU	E	701	-21.720	52.992	30.256	1.00	21.42	E	C
	ATOM	10009	CG	LEU	E	701	-21.263	52.788	31.697	1.00	19.33	E	C
	ATOM	10010	CD1	LEU	E	701	-19.886	52.145	31.710	1.00	19.07	E	C
25	ATOM	10011	CD2	LEU	E	701	-21.233	54.126	32.408	1.00	19.06	E	C
	ATOM	10012	C	LEU	E	701	-23.371	53.584	28.509	1.00	24.85	E	C
	ATOM	10013	O	LEU	E	701	-22.840	54.494	27.865	1.00	23.65	E	O
	ATOM	10014	N	GLY	E	702	-24.137	52.657	27.947	1.00	25.51	E	N
	ATOM	10015	CA	GLY	E	702	-24.368	52.659	26.514	1.00	26.18	E	C
30	ATOM	10016	C	GLY	E	702	-23.772	51.382	25.948	1.00	26.62	E	C
	ATOM	10017	O	GLY	E	702	-22.843	50.820	26.526	1.00	27.38	E	O
	ATOM	10018	N	ASN	E	703	-24.286	50.929	24.811	1.00	27.03	E	N
	ATOM	10019	CA	ASN	E	703	-23.820	49.688	24.197	1.00	27.37	E	C
	ATOM	10020	CB	ASN	E	703	-24.766	49.297	23.066	1.00	29.02	E	C
35	ATOM	10021	CG	ASN	E	703	-26.182	49.106	23.547	1.00	31.26	E	C
	ATOM	10022	OD1	ASN	E	703	-26.547	48.032	24.032	1.00	32.57	E	O
	ATOM	10023	ND2	ASN	E	703	-26.989	50.153	23.432	1.00	33.12	E	N
	ATOM	10024	C	ASN	E	703	-22.389	49.623	23.690	1.00	26.25	E	C
	ATOM	10025	O	ASN	E	703	-21.872	48.537	23.472	1.00	26.00	E	O
40	ATOM	10026	N	ASN	E	704	-21.741	50.768	23.514	1.00	26.89	E	N
	ATOM	10027	CA	ASN	E	704	-20.369	50.790	23.011	1.00	26.65	E	C
	ATOM	10028	CB	ASN	E	704	-20.249	51.833	21.904	1.00	31.61	E	C
	ATOM	10029	CG	ASN	E	704	-19.936	51.221	20.564	1.00	35.16	E	C
	ATOM	10030	OD1	ASN	E	704	-18.771	50.990	20.230	1.00	36.94	E	O
45	ATOM	10031	ND2	ASN	E	704	-20.977	50.953	19.782	1.00	37.88	E	N
	ATOM	10032	C	ASN	E	704	-19.335	51.102	24.079	1.00	24.28	E	C
	ATOM	10033	O	ASN	E	704	-18.175	51.373	23.767	1.00	23.10	E	O
	ATOM	10034	N	TYR	E	705	-19.755	51.051	25.338	1.00	24.11	E	N
	ATOM	10035	CA	TYR	E	705	-18.884	51.371	26.467	1.00	20.68	E	C
50	ATOM	10036	CB	TYR	E	705	-19.642	51.110	27.778	1.00	18.86	E	C
	ATOM	10037	CG	TYR	E	705	-19.598	49.680	28.258	1.00	17.21	E	C
	ATOM	10038	CD1	TYR	E	705	-20.591	48.773	27.899	1.00	16.41	E	C
	ATOM	10039	CE1	TYR	E	705	-20.543	47.450	28.332	1.00	16.48	E	C
	ATOM	10040	CD2	TYR	E	705	-18.551	49.230	29.069	1.00	17.71	E	C
55	ATOM	10041	CE2	TYR	E	705	-18.492	47.913	29.510	1.00	15.85	E	C
	ATOM	10042	CZ	TYR	E	705	-19.490	47.030	29.137	1.00	18.17	E	C
	ATOM	10043	OH	TYR	E	705	-19.431	45.728	29.568	1.00	20.62	E	O
	ATOM	10044	C	TYR	E	705	-17.504	50.698	26.486	1.00	19.72	E	C
	ATOM	10045	O	TYR	E	705	-16.559	51.235	27.067	1.00	19.39	E	O
60	ATOM	10046	N	LEU	E	706	-17.370	49.544	25.844	1.00	19.33	E	N
	ATOM	10047	CA	LEU	E	706	-16.087	48.851	25.828	1.00	21.84	E	C
	ATOM	10048	CB	LEU	E	706	-16.277	47.376	25.457	1.00	21.77	E	C
	ATOM	10049	CG	LEU	E	706	-16.762	46.429	26.565	1.00	23.58	E	C
	ATOM	10050	CD1	LEU	E	706	-17.235	45.114	25.954	1.00	21.15	E	C
65	ATOM	10051	CD2	LEU	E	706	-15.642	46.175	27.559	1.00	20.95	E	C
	ATOM	10052	C	LEU	E	706	-15.093	49.503	24.866	1.00	23.57	E	C
	ATOM	10053	O	LEU	E	706	-13.896	49.220	24.914	1.00	23.98	E	O
	ATOM	10054	N	GLU	E	707	-15.589	50.379	23.997	1.00	25.24	E	N

	ATOM	10055	CA	GLU	E	707	-14.739	51.070	23.032	1.00	26.06	E	C
	ATOM	10056	CB	GLU	E	707	-15.573	51.508	21.826	1.00	29.77	E	C
	ATOM	10057	CG	GLU	E	707	-16.040	50.358	20.954	1.00	35.27	E	C
	ATOM	10058	CD	GLU	E	707	-14.888	49.484	20.499	1.00	39.32	E	C
5	ATOM	10059	OE1	GLU	E	707	-14.926	48.258	20.749	1.00	42.14	E	O
	ATOM	10060	OE2	GLU	E	707	-13.938	50.029	19.895	1.00	40.99	E	O
	ATOM	10061	C	GLU	E	707	-14.090	52.294	23.675	1.00	25.22	E	C
	ATOM	10062	O	GLU	E	707	-14.767	53.091	24.318	1.00	25.56	E	O
10	ATOM	10063	N	GLU	E	708	-12.784	52.447	23.485	1.00	24.92	E	N
	ATOM	10064	CA	GLU	E	708	-12.041	53.570	24.056	1.00	24.71	E	C
	ATOM	10065	CB	GLU	E	708	-10.552	53.215	24.149	1.00	26.75	E	C
	ATOM	10066	CG	GLU	E	708	-10.280	51.716	24.092	1.00	31.30	E	C
	ATOM	10067	CD	GLU	E	708	-9.197	51.262	25.049	1.00	31.81	E	C
	ATOM	10068	OE1	GLU	E	708	-8.139	51.915	25.103	1.00	34.12	E	O
15	ATOM	10069	OE2	GLU	E	708	-9.398	50.244	25.746	1.00	33.47	E	O
	ATOM	10070	C	GLU	E	708	-12.213	54.886	23.290	1.00	23.33	E	C
	ATOM	10071	O	GLU	E	708	-12.401	54.893	22.072	1.00	23.54	E	O
	ATOM	10072	N	GLY	E	709	-12.156	55.999	24.020	1.00	20.50	E	N
	ATOM	10073	CA	GLY	E	709	-12.302	57.304	23.405	1.00	17.45	E	C
20	ATOM	10074	C	GLY	E	709	-13.746	57.748	23.308	1.00	17.30	E	C
	ATOM	10075	O	GLY	E	709	-14.642	57.052	23.792	1.00	16.72	E	O
	ATOM	10076	N	PRO	E	710	-14.009	58.908	22.685	1.00	16.20	E	N
	ATOM	10077	CD	PRO	E	710	-12.995	59.801	22.095	1.00	14.60	E	C
	ATOM	10078	CA	PRO	E	710	-15.364	59.444	22.532	1.00	15.93	E	C
25	ATOM	10079	CB	PRO	E	710	-15.166	60.668	21.643	1.00	15.49	E	C
	ATOM	10080	CG	PRO	E	710	-13.752	61.073	21.877	1.00	14.32	E	C
	ATOM	10081	C	PRO	E	710	-16.387	58.480	21.939	1.00	17.42	E	C
	ATOM	10082	O	PRO	E	710	-17.576	58.571	22.231	1.00	18.48	E	O
	ATOM	10083	N	ILE	E	711	-15.927	57.562	21.102	1.00	17.30	E	N
30	ATOM	10084	CA	ILE	E	711	-16.818	56.616	20.452	1.00	18.33	E	C
	ATOM	10085	CB	ILE	E	711	-16.047	55.776	19.400	1.00	19.16	E	C
	ATOM	10086	CG2	ILE	E	711	-15.323	54.616	20.067	1.00	19.13	E	C
	ATOM	10087	CG1	ILE	E	711	-17.017	55.262	18.338	1.00	20.78	E	C
	ATOM	10088	CD1	ILE	E	711	-17.844	56.353	17.675	1.00	19.42	E	C
35	ATOM	10089	C	ILE	E	711	-17.518	55.693	21.442	1.00	19.43	E	C
	ATOM	10090	O	ILE	E	711	-18.638	55.234	21.197	1.00	20.06	E	O
	ATOM	10091	N	GLY	E	712	-16.866	55.432	22.569	1.00	18.86	E	N
	ATOM	10092	CA	GLY	E	712	-17.459	54.564	23.566	1.00	19.06	E	C
	ATOM	10093	C	GLY	E	712	-18.354	55.258	24.580	1.00	18.84	E	C
40	ATOM	10094	O	GLY	E	712	-18.938	54.596	25.430	1.00	20.49	E	O
	ATOM	10095	N	ASN	E	713	-18.484	56.577	24.494	1.00	18.01	E	N
	ATOM	10096	CA	ASN	E	713	-19.305	57.314	25.452	1.00	17.06	E	C
	ATOM	10097	CB	ASN	E	713	-18.545	58.541	25.987	1.00	14.95	E	C
	ATOM	10098	CG	ASN	E	713	-19.361	59.347	26.988	1.00	14.54	E	C
45	ATOM	10099	OD1	ASN	E	713	-19.520	60.559	26.848	1.00	17.26	E	O
	ATOM	10100	ND2	ASN	E	713	-19.883	58.674	28.007	1.00	12.38	E	N
	ATOM	10101	C	ASN	E	713	-20.646	57.770	24.909	1.00	18.95	E	C
	ATOM	10102	O	ASN	E	713	-20.718	58.397	23.853	1.00	18.03	E	O
	ATOM	10103	N	ASP	E	714	-21.703	57.453	25.656	1.00	19.37	E	N
50	ATOM	10104	CA	ASP	E	714	-23.064	57.849	25.311	1.00	19.14	E	C
	ATOM	10105	CB	ASP	E	714	-23.991	56.630	25.319	1.00	19.64	E	C
	ATOM	10106	CG	ASP	E	714	-25.396	56.955	24.827	1.00	21.23	E	C
	ATOM	10107	OD1	ASP	E	714	-25.747	58.154	24.721	1.00	22.35	E	O
	ATOM	10108	OD2	ASP	E	714	-26.153	56.002	24.546	1.00	20.62	E	O
55	ATOM	10109	C	ASP	E	714	-23.487	58.838	26.395	1.00	18.76	E	C
	ATOM	10110	O	ASP	E	714	-23.975	58.437	27.447	1.00	18.65	E	O
	ATOM	10111	N	ILE	E	715	-23.284	60.125	26.130	1.00	18.63	E	N
	ATOM	10112	CA	ILE	E	715	-23.605	61.180	27.078	1.00	18.80	E	C
	ATOM	10113	CB	ILE	E	715	-23.318	62.577	26.473	1.00	19.41	E	C
60	ATOM	10114	CG2	ILE	E	715	-24.392	62.939	25.465	1.00	19.88	E	C
	ATOM	10115	CG1	ILE	E	715	-23.253	63.631	27.581	1.00	16.82	E	C
	ATOM	10116	CD1	ILE	E	715	-22.996	65.032	27.071	1.00	14.84	E	C
	ATOM	10117	C	ILE	E	715	-25.037	61.133	27.563	1.00	19.42	E	C
	ATOM	10118	O	ILE	E	715	-25.342	61.608	28.660	1.00	20.10	E	O
65	ATOM	10119	N	ARG	E	716	-25.922	60.558	26.758	1.00	20.24	E	N
	ATOM	10120	CA	ARG	E	716	-27.324	60.464	27.147	1.00	22.43	E	C
	ATOM	10121	CB	ARG	E	716	-28.159	59.886	26.000	1.00	25.83	E	C
	ATOM	10122	CG	ARG	E	716	-28.585	60.911	24.956	1.00	30.76	E	C

	ATOM	10123	CD	ARG	E	716	-29.298	60.251	23.783	1.00	36.88	E	C
	ATOM	10124	NE	ARG	E	716	-28.608	59.043	23.325	1.00	42.98	E	N
	ATOM	10125	CZ	ARG	E	716	-29.132	58.147	22.488	1.00	44.28	E	C
	ATOM	10126	NH1	ARG	E	716	-30.359	58.318	22.010	1.00	45.81	E	N
5	ATOM	10127	NH2	ARG	E	716	-28.429	57.079	22.125	1.00	44.44	E	N
	ATOM	10128	C	ARG	E	716	-27.456	59.575	28.378	1.00	21.63	E	C
	ATOM	10129	O	ARG	E	716	-28.420	59.675	29.133	1.00	22.46	E	O
	ATOM	10130	N	LYS	E	717	-26.469	58.710	28.576	1.00	21.04	E	N
	ATOM	10131	CA	LYS	E	717	-26.462	57.785	29.699	1.00	21.76	E	C
10	ATOM	10132	CB	LYS	E	717	-26.138	56.377	29.195	1.00	21.88	E	C
	ATOM	10133	CG	LYS	E	717	-27.364	55.512	28.978	1.00	25.16	E	C
	ATOM	10134	CD	LYS	E	717	-27.175	54.581	27.807	1.00	26.77	E	C
	ATOM	10135	CE	LYS	E	717	-28.406	53.707	27.601	1.00	29.61	E	C
	ATOM	10136	NZ	LYS	E	717	-28.042	52.348	27.079	1.00	33.13	E	N
15	ATOM	10137	C	LYS	E	717	-25.485	58.148	30.821	1.00	21.04	E	C
	ATOM	10138	O	LYS	E	717	-25.755	57.888	31.995	1.00	21.24	E	O
	ATOM	10139	N	THR	E	718	-24.362	58.758	30.459	1.00	19.10	E	N
	ATOM	10140	CA	THR	E	718	-23.330	59.105	31.426	1.00	17.66	E	C
	ATOM	10141	CB	THR	E	718	-21.951	58.698	30.894	1.00	17.57	E	C
20	ATOM	10142	OG1	THR	E	718	-21.581	59.582	29.826	1.00	19.47	E	O
	ATOM	10143	CG2	THR	E	718	-21.977	57.265	30.376	1.00	15.85	E	C
	ATOM	10144	C	THR	E	718	-23.230	60.568	31.849	1.00	18.12	E	C
	ATOM	10145	O	THR	E	718	-22.637	60.868	32.883	1.00	17.85	E	O
	ATOM	10146	N	ASN	E	719	-23.789	61.479	31.061	1.00	16.78	E	N
25	ATOM	10147	CA	ASN	E	719	-23.702	62.907	31.366	1.00	15.86	E	C
	ATOM	10148	CB	ASN	E	719	-24.418	63.241	32.679	1.00	17.59	E	C
	ATOM	10149	CG	ASN	E	719	-24.836	64.712	32.758	1.00	20.35	E	C
	ATOM	10150	OD1	ASN	E	719	-25.541	65.224	31.886	1.00	20.74	E	O
	ATOM	10151	ND2	ASN	E	719	-24.400	65.391	33.808	1.00	21.17	E	N
30	ATOM	10152	C	ASN	E	719	-22.245	63.386	31.429	1.00	14.94	E	C
	ATOM	10153	O	ASN	E	719	-21.914	64.334	32.147	1.00	13.94	E	O
	ATOM	10154	N	VAL	E	720	-21.377	62.708	30.683	1.00	14.23	E	N
	ATOM	10155	CA	VAL	E	720	-19.969	63.075	30.596	1.00	14.62	E	C
	ATOM	10156	CB	VAL	E	720	-19.039	61.835	30.661	1.00	15.85	E	C
35	ATOM	10157	CG1	VAL	E	720	-17.616	62.232	30.264	1.00	15.65	E	C
	ATOM	10158	CG2	VAL	E	720	-19.045	61.234	32.072	1.00	14.16	E	C
	ATOM	10159	C	VAL	E	720	-19.800	63.745	29.223	1.00	15.52	E	C
	ATOM	10160	O	VAL	E	720	-20.210	63.188	28.200	1.00	15.02	E	O
	ATOM	10161	N	ALA	E	721	-19.196	64.931	29.207	1.00	15.06	E	N
40	ATOM	10162	CA	ALA	E	721	-18.991	65.689	27.972	1.00	13.31	E	C
	ATOM	10163	CB	ALA	E	721	-18.431	67.059	28.304	1.00	11.04	E	C
	ATOM	10164	C	ALA	E	721	-18.074	64.991	26.973	1.00	13.41	E	C
	ATOM	10165	O	ALA	E	721	-17.086	64.371	27.349	1.00	12.05	E	O
	ATOM	10166	N	GLN	E	722	-18.397	65.107	25.690	1.00	14.05	E	N
45	ATOM	10167	CA	GLN	E	722	-17.574	64.493	24.657	1.00	13.17	E	C
	ATOM	10168	CB	GLN	E	722	-18.320	64.487	23.320	1.00	15.89	E	C
	ATOM	10169	CG	GLN	E	722	-19.359	63.367	23.199	1.00	15.88	E	C
	ATOM	10170	CD	GLN	E	722	-18.746	61.972	23.272	1.00	17.97	E	C
	ATOM	10171	OE1	GLN	E	722	-18.867	61.173	22.341	1.00	20.79	E	O
50	ATOM	10172	NE2	GLN	E	722	-18.089	61.675	24.378	1.00	18.26	E	N
	ATOM	10173	C	GLN	E	722	-16.262	65.264	24.546	1.00	12.99	E	C
	ATOM	10174	O	GLN	E	722	-15.244	64.732	24.096	1.00	13.38	E	O
	ATOM	10175	N	ILE	E	723	-16.289	66.525	24.967	1.00	13.18	E	N
	ATOM	10176	CA	ILE	E	723	-15.093	67.361	24.961	1.00	13.52	E	C
55	ATOM	10177	CB	ILE	E	723	-15.425	68.793	25.444	1.00	14.20	E	C
	ATOM	10178	CG2	ILE	E	723	-14.147	69.532	25.842	1.00	13.96	E	C
	ATOM	10179	CG1	ILE	E	723	-16.153	69.551	24.333	1.00	14.79	E	C
	ATOM	10180	CD1	ILE	E	723	-16.614	70.945	24.722	1.00	12.34	E	C
	ATOM	10181	C	ILE	E	723	-14.080	66.724	25.922	1.00	14.48	E	C
60	ATOM	10182	O	ILE	E	723	-12.879	66.645	25.631	1.00	15.76	E	O
	ATOM	10183	N	ARG	E	724	-14.586	66.262	27.065	1.00	14.26	E	N
	ATOM	10184	CA	ARG	E	724	-13.763	65.619	28.084	1.00	12.58	E	C
	ATOM	10185	CB	ARG	E	724	-14.603	65.389	29.356	1.00	14.62	E	C
	ATOM	10186	CG	ARG	E	724	-13.862	64.722	30.534	1.00	14.00	E	C
65	ATOM	10187	CD	ARG	E	724	-12.607	65.496	30.947	1.00	13.66	E	C
	ATOM	10188	NE	ARG	E	724	-12.923	66.820	31.474	1.00	13.33	E	N
	ATOM	10189	CZ	ARG	E	724	-13.202	67.076	32.751	1.00	15.53	E	C
	ATOM	10190	NH1	ARG	E	724	-13.207	66.098	33.647	1.00	14.51	E	N

	ATOM	10191	NH2	ARG	E	724	-13.491	68.311	33.134	1.00	13.40	E	N
	ATOM	10192	C	ARG	E	724	-13.235	64.294	27.541	1.00	10.92	E	C
	ATOM	10193	O	ARG	E	724	-12.047	63.995	27.645	1.00	10.11	E	O
5	ATOM	10194	N	MET	E	725	-14.124	63.502	26.952	1.00	10.63	E	N
	ATOM	10195	CA	MET	E	725	-13.725	62.215	26.393	1.00	12.60	E	C
	ATOM	10196	CB	MET	E	725	-14.931	61.527	25.749	1.00	10.49	E	C
	ATOM	10197	CG	MET	E	725	-15.988	61.072	26.737	1.00	9.19	E	C
	ATOM	10198	SD	MET	E	725	-15.385	59.809	27.897	1.00	12.92	E	S
10	ATOM	10199	CE	MET	E	725	-14.825	58.516	26.807	1.00	7.80	E	C
	ATOM	10200	C	MET	E	725	-12.606	62.379	25.357	1.00	12.98	E	C
	ATOM	10201	O	MET	E	725	-11.614	61.653	25.383	1.00	15.67	E	O
	ATOM	10202	N	ALA	E	726	-12.773	63.343	24.454	1.00	14.49	E	N
	ATOM	10203	CA	ALA	E	726	-11.790	63.603	23.409	1.00	14.99	E	C
	ATOM	10204	CB	ALA	E	726	-12.335	64.640	22.412	1.00	12.89	E	C
15	ATOM	10205	C	ALA	E	726	-10.476	64.089	24.010	1.00	14.90	E	C
	ATOM	10206	O	ALA	E	726	-9.395	63.672	23.583	1.00	13.81	E	O
	ATOM	10207	N	TYR	E	727	-10.569	64.977	24.997	1.00	14.14	E	N
	ATOM	10208	CA	TYR	E	727	-9.370	65.501	25.641	1.00	12.53	E	C
	ATOM	10209	CB	TYR	E	727	-9.738	66.493	26.755	1.00	12.00	E	C
20	ATOM	10210	CG	TYR	E	727	-8.539	66.889	27.590	1.00	11.32	E	C
	ATOM	10211	CD1	TYR	E	727	-8.228	66.212	28.768	1.00	11.16	E	C
	ATOM	10212	CE1	TYR	E	727	-7.079	66.526	29.500	1.00	10.75	E	C
	ATOM	10213	CD2	TYR	E	727	-7.674	67.894	27.165	1.00	9.40	E	C
	ATOM	10214	CE2	TYR	E	727	-6.519	68.217	27.890	1.00	7.90	E	C
25	ATOM	10215	CZ	TYR	E	727	-6.231	67.529	29.053	1.00	10.29	E	C
	ATOM	10216	OH	TYR	E	727	-5.110	67.850	29.786	1.00	11.98	E	O
	ATOM	10217	C	TYR	E	727	-8.517	64.374	26.228	1.00	12.18	E	C
	ATOM	10218	O	TYR	E	727	-7.323	64.300	25.966	1.00	11.40	E	O
	ATOM	10219	N	ARG	E	728	-9.131	63.500	27.023	1.00	12.42	E	N
30	ATOM	10220	CA	ARG	E	728	-8.408	62.391	27.644	1.00	11.05	E	C
	ATOM	10221	CB	ARG	E	728	-9.342	61.557	28.538	1.00	11.17	E	C
	ATOM	10222	CG	ARG	E	728	-10.000	62.325	29.676	1.00	12.91	E	C
	ATOM	10223	CD	ARG	E	728	-9.007	62.704	30.757	1.00	11.74	E	C
	ATOM	10224	NE	ARG	E	728	-9.691	63.249	31.930	1.00	13.03	E	N
35	ATOM	10225	CZ	ARG	E	728	-9.076	63.846	32.943	1.00	10.13	E	C
	ATOM	10226	NH1	ARG	E	728	-7.759	63.979	32.934	1.00	8.39	E	N
	ATOM	10227	NH2	ARG	E	728	-9.782	64.316	33.962	1.00	10.72	E	N
	ATOM	10228	C	ARG	E	728	-7.794	61.463	26.613	1.00	12.88	E	C
	ATOM	10229	O	ARG	E	728	-6.625	61.085	26.704	1.00	12.53	E	O
40	ATOM	10230	N	TYR	E	729	-8.606	61.074	25.639	1.00	14.20	E	N
	ATOM	10231	CA	TYR	E	729	-8.156	60.165	24.601	1.00	13.30	E	C
	ATOM	10232	CB	TYR	E	729	-9.291	59.932	23.611	1.00	16.58	E	C
	ATOM	10233	CG	TYR	E	729	-9.024	58.807	22.654	1.00	21.77	E	C
	ATOM	10234	CD1	TYR	E	729	-8.522	57.587	23.103	1.00	20.72	E	C
45	ATOM	10235	CE1	TYR	E	729	-8.256	56.552	22.212	1.00	23.41	E	C
	ATOM	10236	CD2	TYR	E	729	-9.258	58.967	21.285	1.00	23.78	E	C
	ATOM	10237	CE2	TYR	E	729	-8.996	57.941	20.387	1.00	24.15	E	C
	ATOM	10238	CZ	TYR	E	729	-8.495	56.738	20.856	1.00	25.46	E	C
	ATOM	10239	OH	TYR	E	729	-8.231	55.733	19.958	1.00	28.02	E	O
50	ATOM	10240	C	TYR	E	729	-6.931	60.703	23.885	1.00	11.82	E	C
	ATOM	10241	O	TYR	E	729	-5.926	60.012	23.745	1.00	12.36	E	O
	ATOM	10242	N	GLU	E	730	-7.013	61.952	23.449	1.00	13.50	E	N
	ATOM	10243	CA	GLU	E	730	-5.910	62.582	22.736	1.00	13.72	E	C
	ATOM	10244	CB	GLU	E	730	-6.336	63.961	22.220	1.00	12.65	E	C
55	ATOM	10245	CG	GLU	E	730	-7.525	63.920	21.279	1.00	13.99	E	C
	ATOM	10246	CD	GLU	E	730	-8.065	65.295	20.963	1.00	16.75	E	C
	ATOM	10247	OE1	GLU	E	730	-9.124	65.380	20.308	1.00	19.61	E	O
	ATOM	10248	OE2	GLU	E	730	-7.432	66.292	21.369	1.00	19.73	E	O
	ATOM	10249	C	GLU	E	730	-4.642	62.712	23.568	1.00	13.94	E	C
60	ATOM	10250	O	GLU	E	730	-3.550	62.414	23.077	1.00	16.03	E	O
	ATOM	10251	N	THR	E	731	-4.753	63.148	24.821	1.00	13.35	E	N
	ATOM	10252	CA	THR	E	731	-3.532	63.288	25.610	1.00	13.52	E	C
	ATOM	10253	CB	THR	E	731	-3.738	64.224	26.849	1.00	14.74	E	C
	ATOM	10254	OG1	THR	E	731	-3.719	63.459	28.055	1.00	19.70	E	O
65	ATOM	10255	CG2	THR	E	731	-5.020	64.984	26.743	1.00	7.99	E	C
	ATOM	10256	C	THR	E	731	-2.941	61.927	26.008	1.00	13.11	E	C
	ATOM	10257	O	THR	E	731	-1.724	61.792	26.162	1.00	13.83	E	O
	ATOM	10258	N	TRP	E	732	-3.792	60.912	26.140	1.00	11.93	E	N

	ATOM	10259	CA	TRP	E	732	-3.319	59.569	26.477	1.00	11.20	E	C
	ATOM	10260	CB	TRP	E	732	-4.503	58.661	26.809	1.00	8.10	E	C
	ATOM	10261	CG	TRP	E	732	-4.146	57.233	27.133	1.00	7.14	E	C
	ATOM	10262	CD2	TRP	E	732	-5.007	56.088	27.007	1.00	6.83	E	C
5	ATOM	10263	CE2	TRP	E	732	-4.289	54.966	27.479	1.00	5.70	E	C
	ATOM	10264	CE3	TRP	E	732	-6.320	55.905	26.542	1.00	8.74	E	C
	ATOM	10265	CD1	TRP	E	732	-2.969	56.768	27.659	1.00	7.68	E	C
	ATOM	10266	NE1	TRP	E	732	-3.050	55.406	27.870	1.00	6.08	E	N
	ATOM	10267	CZ2	TRP	E	732	-4.839	53.676	27.501	1.00	5.60	E	C
10	ATOM	10268	CZ3	TRP	E	732	-6.867	54.615	26.566	1.00	10.27	E	C
	ATOM	10269	CH2	TRP	E	732	-6.121	53.520	27.045	1.00	5.59	E	C
	ATOM	10270	C	TRP	E	732	-2.561	59.021	25.269	1.00	13.47	E	C
	ATOM	10271	O	TRP	E	732	-1.465	58.473	25.401	1.00	16.17	E	O
	ATOM	10272	N	CYS	E	733	-3.150	59.178	24.085	1.00	15.41	E	N
15	ATOM	10273	CA	CYS	E	733	-2.516	58.710	22.849	1.00	16.42	E	C
	ATOM	10274	CB	CYS	E	733	-3.426	58.984	21.646	1.00	16.06	E	C
	ATOM	10275	SG	CYS	E	733	-4.725	57.747	21.406	1.00	23.03	E	S
	ATOM	10276	C	CYS	E	733	-1.176	59.415	22.643	1.00	15.15	E	C
	ATOM	10277	O	CYS	E	733	-0.175	58.795	22.276	1.00	15.47	E	O
20	ATOM	10278	N	TYR	E	734	-1.161	60.716	22.893	1.00	15.08	E	N
	ATOM	10279	CA	TYR	E	734	0.046	61.507	22.731	1.00	15.02	E	C
	ATOM	10280	CB	TYR	E	734	-0.254	62.960	23.080	1.00	15.68	E	C
	ATOM	10281	CG	TYR	E	734	0.850	63.918	22.706	1.00	20.22	E	C
	ATOM	10282	CD1	TYR	E	734	0.817	64.621	21.501	1.00	21.66	E	C
25	ATOM	10283	CE1	TYR	E	734	1.820	65.528	21.168	1.00	22.90	E	C
	ATOM	10284	CD2	TYR	E	734	1.918	64.143	23.568	1.00	22.29	E	C
	ATOM	10285	CE2	TYR	E	734	2.928	65.047	23.247	1.00	24.35	E	C
	ATOM	10286	CZ	TYR	E	734	2.873	65.739	22.049	1.00	24.90	E	C
	ATOM	10287	OH	TYR	E	734	3.857	66.661	21.758	1.00	26.50	E	O
30	ATOM	10288	C	TYR	E	734	1.217	60.997	23.575	1.00	16.09	E	C
	ATOM	10289	O	TYR	E	734	2.357	60.955	23.112	1.00	15.65	E	O
	ATOM	10290	N	GLU	E	735	0.942	60.607	24.817	1.00	17.17	E	N
	ATOM	10291	CA	GLU	E	735	1.997	60.114	25.693	1.00	15.28	E	C
	ATOM	10292	CB	GLU	E	735	1.475	60.001	27.130	1.00	17.44	E	C
35	ATOM	10293	CG	GLU	E	735	1.124	61.347	27.768	1.00	15.96	E	C
	ATOM	10294	CD	GLU	E	735	2.313	62.307	27.840	1.00	15.23	E	C
	ATOM	10295	OE1	GLU	E	735	3.398	61.901	28.308	1.00	16.12	E	O
	ATOM	10296	OE2	GLU	E	735	2.159	63.475	27.430	1.00	16.88	E	O
	ATOM	10297	C	GLU	E	735	2.532	58.769	25.214	1.00	15.93	E	C
40	ATOM	10298	O	GLU	E	735	3.736	58.508	25.264	1.00	16.03	E	O
	ATOM	10299	N	LEU	E	736	1.636	57.908	24.748	1.00	16.58	E	N
	ATOM	10300	CA	LEU	E	736	2.040	56.603	24.248	1.00	16.66	E	C
	ATOM	10301	CB	LEU	E	736	0.799	55.750	23.947	1.00	15.62	E	C
	ATOM	10302	CG	LEU	E	736	0.027	55.225	25.167	1.00	16.42	E	C
45	ATOM	10303	CD1	LEU	E	736	-1.340	54.738	24.719	1.00	13.95	E	C
	ATOM	10304	CD2	LEU	E	736	0.815	54.099	25.860	1.00	13.53	E	C
	ATOM	10305	C	LEU	E	736	2.885	56.771	22.980	1.00	17.96	E	C
	ATOM	10306	O	LEU	E	736	3.902	56.097	22.799	1.00	19.82	E	O
	ATOM	10307	N	ASN	E	737	2.467	57.685	22.113	1.00	18.21	E	N
50	ATOM	10308	CA	ASN	E	737	3.176	57.936	20.863	1.00	18.85	E	C
	ATOM	10309	CB	ASN	E	737	2.427	58.981	20.038	1.00	19.16	E	C
	ATOM	10310	CG	ASN	E	737	2.970	59.103	18.643	1.00	19.55	E	C
	ATOM	10311	OD1	ASN	E	737	2.885	58.167	17.857	1.00	24.53	E	O
	ATOM	10312	ND2	ASN	E	737	3.540	60.255	18.325	1.00	18.87	E	N
55	ATOM	10313	C	ASN	E	737	4.610	58.403	21.083	1.00	20.33	E	C
	ATOM	10314	O	ASN	E	737	5.514	58.046	20.315	1.00	20.89	E	O
	ATOM	10315	N	LEU	E	738	4.817	59.203	22.125	1.00	17.88	E	N
	ATOM	10316	CA	LEU	E	738	6.149	59.711	22.431	1.00	18.83	E	C
	ATOM	10317	CB	LEU	E	738	6.121	60.553	23.709	1.00	16.70	E	C
60	ATOM	10318	CG	LEU	E	738	5.555	61.971	23.582	1.00	16.99	E	C
	ATOM	10319	CD1	LEU	E	738	5.434	62.609	24.960	1.00	15.04	E	C
	ATOM	10320	CD2	LEU	E	738	6.458	62.800	22.700	1.00	13.91	E	C
	ATOM	10321	C	LEU	E	738	7.146	58.572	22.593	1.00	19.19	E	C
	ATOM	10322	O	LEU	E	738	8.302	58.690	22.195	1.00	18.88	E	O
65	ATOM	10323	N	ILE	E	739	6.693	57.468	23.178	1.00	19.65	E	N
	ATOM	10324	CA	ILE	E	739	7.556	56.318	23.391	1.00	20.90	E	C
	ATOM	10325	CB	ILE	E	739	6.915	55.304	24.363	1.00	21.49	E	C
	ATOM	10326	CG2	ILE	E	739	7.730	54.006	24.383	1.00	19.43	E	C

	ATOM	10327	CG1	ILE	E	739	6.838	55.912	25.767	1.00	22.60	E	C
	ATOM	10328	CD1	ILE	E	739	5.598	55.505	26.556	1.00	23.07	E	C
	ATOM	10329	C	ILE	E	739	7.839	55.623	22.072	1.00	21.48	E	C
	ATOM	10330	O	ILE	E	739	8.971	55.224	21.805	1.00	21.63	E	O
5	ATOM	10331	N	ALA	E	740	6.801	55.475	21.256	1.00	23.11	E	N
	ATOM	10332	CA	ALA	E	740	6.934	54.829	19.954	1.00	23.75	E	C
	ATOM	10333	CB	ALA	E	740	5.582	54.784	19.246	1.00	21.82	E	C
	ATOM	10334	C	ALA	E	740	7.943	55.591	19.105	1.00	23.64	E	C
10	ATOM	10335	O	ALA	E	740	8.799	54.991	18.460	1.00	24.11	E	O
	ATOM	10336	N	GLU	E	741	7.850	56.915	19.115	1.00	24.16	E	N
	ATOM	10337	CA	GLU	E	741	8.768	57.725	18.326	1.00	26.52	E	C
	ATOM	10338	CB	GLU	E	741	8.360	59.199	18.382	1.00	27.95	E	C
	ATOM	10339	CG	GLU	E	741	6.948	59.472	17.888	1.00	33.75	E	C
	ATOM	10340	CD	GLU	E	741	6.863	59.586	16.373	1.00	36.43	E	C
15	ATOM	10341	OE1	GLU	E	741	5.959	58.962	15.769	1.00	36.64	E	O
	ATOM	10342	OE2	GLU	E	741	7.703	60.301	15.787	1.00	38.56	E	O
	ATOM	10343	C	GLU	E	741	10.205	57.567	18.822	1.00	26.52	E	C
	ATOM	10344	O	GLU	E	741	11.146	57.584	18.037	1.00	27.58	E	O
	ATOM	10345	N	GLY	E	742	10.370	57.404	20.128	1.00	26.90	E	N
20	ATOM	10346	CA	GLY	E	742	11.700	57.262	20.685	1.00	28.25	E	C
	ATOM	10347	C	GLY	E	742	12.360	55.957	20.293	1.00	30.89	E	C
	ATOM	10348	O	GLY	E	742	13.576	55.800	20.416	1.00	31.37	E	O
	ATOM	10349	N	LEU	E	743	11.552	55.017	19.818	1.00	32.42	E	N
25	ATOM	10350	CA	LEU	E	743	12.033	53.705	19.407	1.00	32.64	E	C
	ATOM	10351	CB	LEU	E	743	11.110	52.625	19.974	1.00	30.09	E	C
	ATOM	10352	CG	LEU	E	743	11.462	51.912	21.286	1.00	30.54	E	C
	ATOM	10353	CD1	LEU	E	743	12.524	52.672	22.060	1.00	28.68	E	C
	ATOM	10354	CD2	LEU	E	743	10.192	51.759	22.106	1.00	28.37	E	C
	ATOM	10355	C	LEU	E	743	12.048	53.607	17.884	1.00	35.10	E	C
30	ATOM	10356	O	LEU	E	743	12.603	52.667	17.316	1.00	35.23	E	O
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35	ATOM	10360	CG	LYS	E	744	9.333	55.589	14.472	1.00	37.81	E	C
	ATOM	10361	CD	LYS	E	744	9.204	56.662	13.416	1.00	37.70	E	C
	ATOM	10362	CE	LYS	E	744	7.756	56.890	13.033	1.00	38.39	E	C
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40	ATOM	10365	O	LYS	E	744	13.657	55.145	15.466	1.00	44.13	E	O
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55	ATOM	10380	N4	UK-	M	96	23.456	62.021	51.856	1.00	25.77	M	N
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	ATOM	10382	C10	UK-	M	96	24.659	64.306	51.874	1.00	27.58	M	C
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60	ATOM	10385	N1	UK-	M	96	27.040	64.773	50.852	1.00	25.27	M	N
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	ATOM	10418	C5	UK-	N	96	-9.484	40.537	59.347	1.00	35.83	N	C
25	ATOM	10419	C13	UK-	N	96	-10.829	41.002	59.098	1.00	36.61	N	C
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	ATOM	10422	C15	UK-	N	96	-5.942	41.895	59.371	1.00	32.47	N	C
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	ATOM	10424	C17	UK-	N	96	-11.985	40.068	59.199	1.00	38.95	N	C
30	ATOM	10425	O1	UK-	N	96	-12.017	39.202	60.107	1.00	40.94	N	O
	ATOM	10426	O2	UK-	N	96	-12.897	40.189	58.356	1.00	41.04	N	O
END													

Sequence listings (part of the description)

Sequence ID No 1: Rabbit AMPDA cDNA sequence

```

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181 atggagacgc tggccacctc cccagaaggc acgaggaaaa agcgtttcca aggacggaag
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301 gaatacatct ctttatctcc aacctaccag acagtccctg attttcagag agtgcagatc
10 361 acgggagact atgcctctgg ggtcacagtg gaagacttcg aaatagtgtg caaagggctg
421 taccgggcat tgtgtatccg ggagaaatac atgctgaagt cgtttcagag gttcccaaaa
481 accccttcca agtacttgcg gagcattgaa ggcacagctt ggaaagcaaa tgagagctcc
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841 gacgagctga aggagctgaa gaacaacctc caccgcgatt tttaacaact caggaaggcg
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2101 ttgggcaaca attaccttga ggaaggcccc attggaaatg atatccggaa gacgaatgta
40 2161 gcccaaatcc gcatggccta tcgctatgaa acctggtgtt atgaactcaa ttaattgct
2221 gaggtctta aatcaacaga a

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Sequence ID No: 2: Rabbit AMPDA protein sequence:

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45 1 MPLFKLPAEG KELDDAMGSF AEKVFASEVK DEGRQEI SP FDVDEICPIS
51 HHEMQAHILH METLATSPEG TRKKRFQGRK TVNLSIPLSE ASSTKLSHID
101 EYISLSPTYQ TVPDFQRVQI TGDYASGVTV EDFEIVCKGL YRALCIREKY
50 151 MLKSFRFPK TPSKYLR SIE GTAWKANESS YPVFTPALKK GEDPFRDNL
201 PENLGYHLKM KDGVVYIYAN EAAAGKDEPK PLLYPNMEEF LDDMNFLAL
55 251 IAQGPVKTYT HRRLKFLSSK FQVHQLNEM DELKELKNNP HRDFYNCRKV
301 DTHIHAAACM NQKHLRFIK KSYQVDADRV VYSTKEKNLT LKQLFDKCLK

```


351 HPYDLTVDSL DVHAGRQTFQ RFDKFNDKYN PVGASELRDL YLKTDNYING
5 401 EYFATIIKEV GADLVDAKYQ HAEPRLSIYG RSPDEWSKLS SWFVRNRIYS
451 SNMTWMIQVP RIYDVFRSKN FLPHFGKMLE NVFMPVFEAT INPQAHPELS
501 VFLKHITGFD SVDDSKHSG HMFSSKSPKP QEWTLEKNPS YTTYAYMYA
10 551 NIMVLNSLRK ERGMNTFLFR PHCGEVGALT HLMTAFMTAD NISHGLNLKK
601 SPVLQYLFFL AQIPIAMSPL SNNSLFLEYA KNPFLDFLQK GLMISLSTDD
651 PMQFHFTKEP LMEEYAIAAQ VFKLSTCDMC EVARNSVLQC GISHEEKAKF
15 701 LGNNYLEEGP IGNDIRKTNV AQIRMAYRYE TWCYELNLIA EGLKSTE

20 Sequence ID No: 3: Primer AMPDA-1:

5'-ATGCCTCTGTTCAAACCTCCC-3'

Sequence ID No: 4: Primer AMPDA-2:

5'-TTCTGTTGATTTAAGACCCTC-3'

25

Sequence ID No: 5: Primer AMPDA-3:

5'-ATGAACCAGAAACATCTGCTG-3'

Sequence ID No: 6: Primer AMPDA-4:

30 5'-CAGCAGATGTTTCTGGTTCATG-3'

Claims

1. An AMP deaminase (AMPDA) crystal, wherein said crystal is tetragonal.
2. The crystal as claimed in claim 1, wherein the AMPDA consists of the catalytic
5 domain of AMPDA.
3. The crystal as claimed in claim 1 or claim 2, wherein the AMPDA is from a mammal.
4. The crystal as claimed in any one of claims 1 to 3, wherein the AMPDA is from a rabbit.
5. The crystal as claimed in claim 4, wherein the AMPDA sequence is as shown in SEQ
10 ID NO: 2, but starting at position 96.
6. The crystal as claimed in any one of the preceding claims, which is grown using citric acid as precipitating agent.
7. The crystal as claimed in any one of the preceding claims, which is grown in the pH range of 7.80-8.20.
- 15 8. The crystal as claimed in any one of the preceding claims, which is grown in the presence of imidazole.
9. The crystal as claimed in any one of the preceding claims, wherein the crystal has a space group $P4_22_12$.
10. The crystal as claimed in any one of the preceding claims, wherein the crystal has unit
20 cell dimensions of $a=b=149\text{\AA} \pm 3\text{\AA}$, $c=159\text{\AA} \pm 3\text{\AA}$.
11. The crystal as claimed in any one of the preceding claims, wherein there is a dimer of two AMPDA molecules in the asymmetric unit.
12. The crystal as claimed in claim 11, comprising tightly associated tetramers formed of two dimers as defined in claim 11, each monomer having a $(\beta\alpha)_8$ barrel fold, wherein
25 the inter-subunit contacts are almost exclusively made by the helices additional to the $(\beta\alpha)_8$ barrel.
13. The crystal as claimed in any one of the preceding claims, wherein the AMPDA has a Zn^{2+} coordination site involving His303, His305, His 572, and Asp649, with a further coordination site contributed by an activated water molecule required for catalysis.
- 30 14. The crystal as claimed in any one of the preceding claims, wherein the active site of AMPDA is contained in a cleft formed by the additional helices between the first and second strand of the $(\beta\alpha)_8$ barrel fold, and the helix immediately following the third strand.

15. The crystal as claimed in any one of the preceding claims, wherein the AMPDA has a pocket which can accommodate the adenosine group of AMP, which pocket is formed by amino acid residues including, but not limited to, residues His305, Phe372, Phe375, Asp513, Glu575, His594, and Asp650.
- 5 16. The crystal as claimed in any one of the preceding claims, wherein the AMPDA has a pocket which can accommodate the ribose and phosphate groups of AMP, which pocket is formed by amino acid residues including, but not limited to, residues His305, Ala306, Ala307, Ala308, Phe375, Asn376, Tyr379, Arg388, Lys393, Ser427, Tyr429, Pro460, Ile462, Val512, and Asp513.
- 10 17. The crystal as claimed in any one of the preceding claims, which diffracts X-rays to 3.5Å or higher resolution.
18. The crystal as claimed in claim 17, which diffracts X-rays to 2.8Å or higher resolution.
19. The crystal as claimed in claim 17, which diffracts X-rays to 2.5Å or higher resolution.
- 15 20. The crystal as claimed in claim 17, which diffracts X-rays to 2.2Å or higher resolution.
21. The crystal as claimed in claim 20, having the atomic coordinates set out in Table 2, or a derivative set as expressed in any reference frame.
- 20 22. A heavy atom derivative of the crystal as claimed in any one of the preceding claims.
23. The heavy atom derivative as claimed in claim 22, wherein the heavy atom is lead.
24. The heavy atom derivative as claimed in claim 22, wherein the heavy atom is silver.
25. The heavy atom derivative as claimed in claim 22, wherein the heavy atom is xenon.
26. The crystal as claimed in any one of claims 1 to 21, wherein an AMPDA inhibitor has
- 25 been soaked in.
27. The crystal as claimed in claim 26, wherein the inhibitor is an AMPDA transition state analogue.
28. The crystal as claimed in claim 26, wherein the inhibitor is a coformycin analogue.
29. The crystal as claimed in claim 26, wherein the inhibitor is coformycin.
- 30 30. The crystal as claimed in claim 26, wherein the inhibitor is UK-384,858.
31. The crystal as claimed in claim 29, having the atomic coordinates set out in Table 3, or a derivative set as expressed in any reference frame.
32. The crystal as claimed in claim 30, having the atomic coordinates set out in Table 4, or a derivative set as expressed in any reference frame.

33. A crystal of AMPDA, wherein the primary sequence of the AMPDA has 90% or higher identity at amino acid level to the sequence shown in SEQ ID NO:2.
34. The use of atomic coordinates of a crystal as claimed in any one of the preceding claims for deriving the three-dimensional structure of AMPDA.
-
- 5 35. The use of the three-dimensional structure of AMPDA as derived in claim 34 to computationally or otherwise evaluate the binding interactions of a chemical compound with the active site of AMPDA.
36. The use of the three-dimensional structure of AMPDA as derived in claim 34 to computationally or otherwise evaluate the binding interactions of a chemical
10 compound with AMPDA.
37. The use of the three-dimensional structure of AMPDA as derived in claim 34 to design a compound capable of associating with the active site of the enzyme.
38. The use of the three-dimensional structure of AMPDA as derived in claim 34 to design a compound capable of associating with the enzyme.
- 15 39. The use according to claims 35, 36, 37 or 38, wherein the compound is an inhibitor of AMPDA.
40. A compound designed using the method of claims 37 or 38.
41. A method of selecting an AMPDA inhibitor compound from a group of potential AMPDA inhibitor compounds, comprising the following steps:
- 20 a) creating a three-dimensional representation of the structure of AMPDA as derived in claim 34;
- b) displaying and superimposing the model of said test compound on the model of the AMPDA structure;
- c) assessing whether the test compound model fits the AMPDA structure.
- 25 42. A method of selecting an AMPDA inhibitor compound from a group of potential AMPDA inhibitor compounds, comprising the following steps:
- a) creating a three-dimensional representation of the active site cavity of AMPDA as derived in claim 34, in a suitable computer program;
- b) displaying and superimposing the model of said test compound on the model of
30 said active site;
- c) assessing whether the test compound model fits the active site.
43. The method as claimed in claim 41 or claim 42, further comprising the following steps:
- d) incorporating the test compound in a biological AMPDA activity assay;

- e) determining whether the test compound inhibits AMPDA activity in this assay.
44. A compound selected by the method as claimed in claim 41, claim 42 or claim 43.
45. A pharmaceutical composition comprising the compound of claims 40 or claim 44.
46. Use of a compound as claimed in claim 40 or claim 44 in the manufacture of a medicament for the treatment of diseases, wherein the inhibition of AMPDA is beneficial.
47. Use as claimed in claim 46, wherein the diseases are ischemia-related diseases such as congestive heart failure, peripheral vascular disease, chronic obstructive pulmonary disease, or coronary artery disease.
48. Use as claimed in claim 46 wherein the disease is Alzheimer's disease.
49. The use of the atomic coordinates of AMPDA as defined in claims 21, 31, or 32, or portions thereof, to solve a crystal form of a mutant, homologue or co-complex of AMPDA, for example by molecular replacement or Difference Fourier analysis.
50. The use of the atomic coordinates of AMPDA as defined in claims 21, 31, or 32, or portions thereof, to produce a model of the three-dimensional structure of related proteins.
51. An isolated and/or purified polynucleotide comprising one or more of:
- a) a polynucleotide encoding the polypeptide as set forth in SEQ ID NO: 2;
 - b) a polynucleotide comprising a nucleotide sequence of SEQ ID NO: 1;
 - c) a polynucleotide comprising a nucleotide sequence that has at least 91% identity to the polynucleotide of any one of (a) to (b);
 - d) a polynucleotide comprising a nucleotide sequence that has at least 95% identity to the polynucleotide of any one of (a) to (c);
 - e) a polynucleotide comprising a nucleotide sequence which is capable of hybridising to the polynucleotide of any one of (a) to (c) under high stringency conditions;
 - f) a complement to the polynucleotide of any one of (a) to (d); or
 - g) a polynucleotide fragment of the polynucleotide of any one of (a) to (e)
52. A polypeptide comprising:
- a) a polypeptide having the deduced amino acid sequence translated from the polynucleotide sequence in SEQ ID NO: 1 and variants, fragments, homologues, analogues and derivatives thereof;
 - b) a polypeptide of SEQ ID NO: 2 and variants, fragments, homologues, analogues and derivatives thereof.

Figure 1

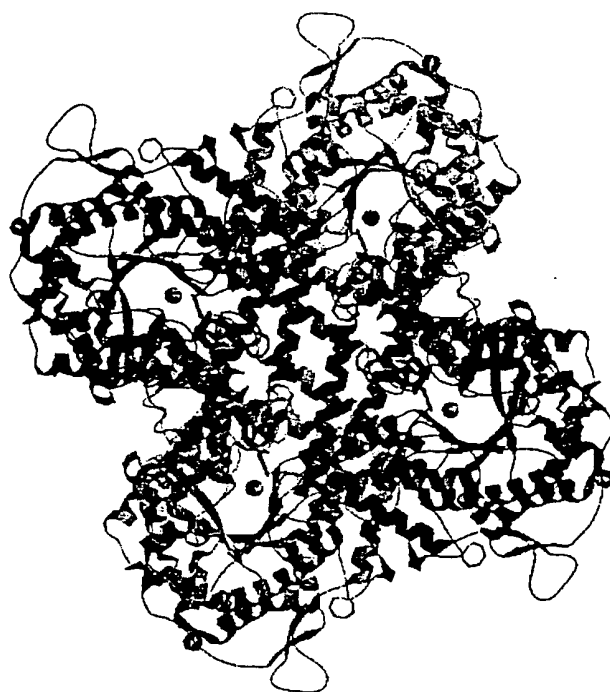




Figure 2

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Figure 3

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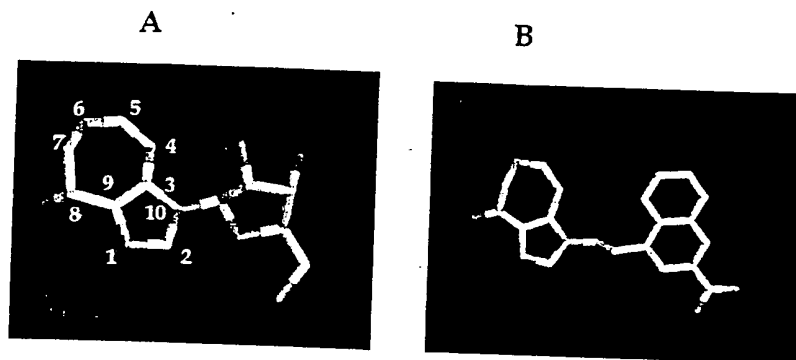


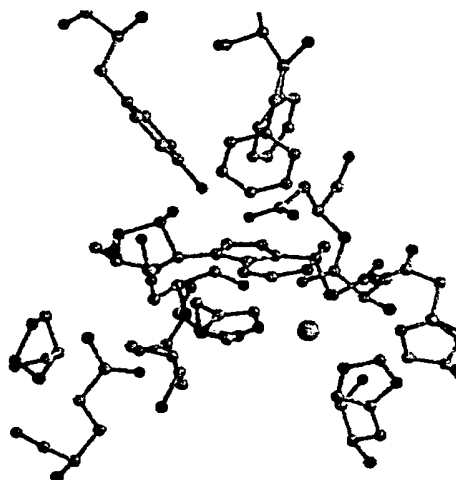




Figure 4

5

10

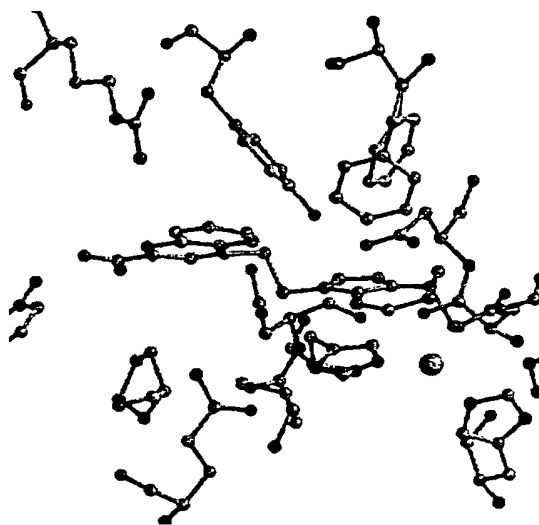




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Figure 5

10



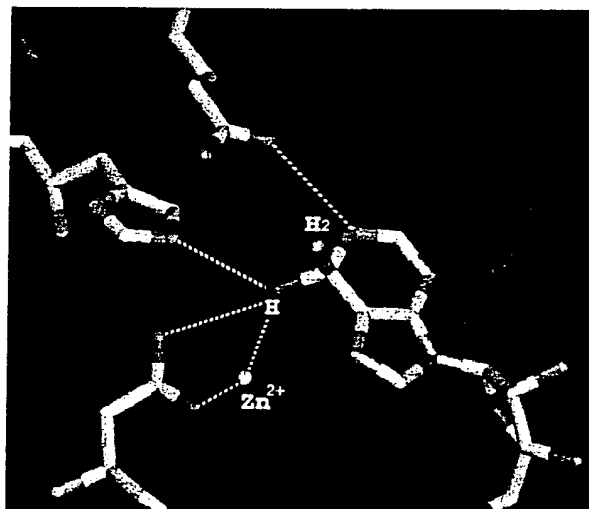
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Figure 6

5

10





SEQUENCE LISTING

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<213> *Oryctolagus cuniculus* (Rabbit)

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495

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	Lys Ser Tyr Gln Val Asp Ala Asp Arg Val Val Tyr Ser Thr Lys Glu				
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	Lys Asn Leu Thr Leu Lys Gln Leu Phe Asp Lys Leu Lys Leu His Pro				
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	Glu Tyr Phe Ala Thr Ile Ile Lys Glu Val Gly Ala Asp Leu Val Asp				
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	Ala Lys Tyr Gln His Ala Glu Pro Arg Leu Ser Ile Tyr Gly Arg Ser				
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	Pro Asp Glu Trp Ser Lys Leu Ser Ser Trp Phe Val Arg Asn Arg Ile				
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496

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22

